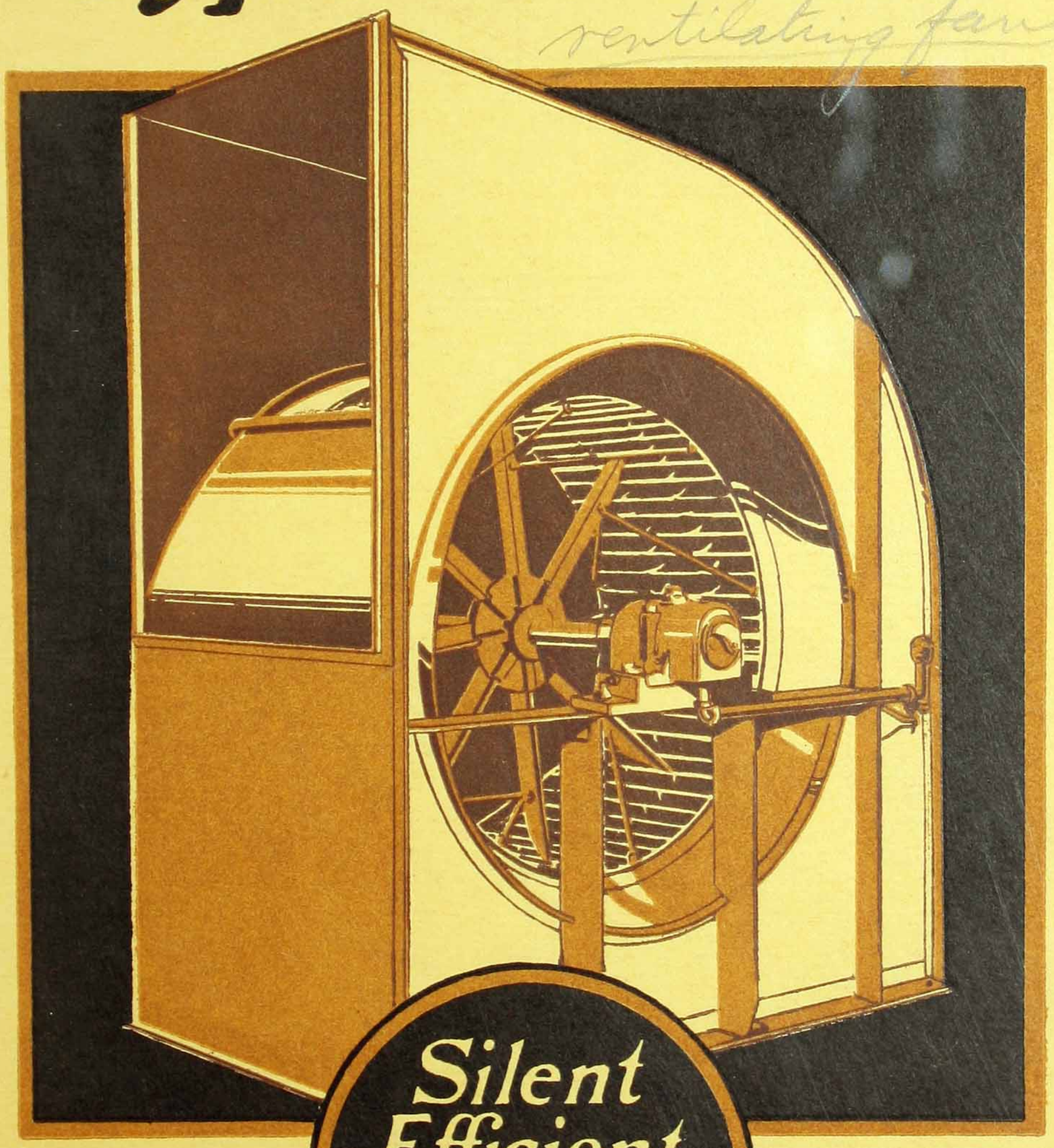
CLARAGE

Type HV Fans

ventilating fans



Silent Efficient Performance

REFERENCE BOOK NUMBER FIFTY-FOUR

PHILADELPHIA OFFICE
Commercial Trust Building

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API INTERNATIONAL

CCA

CLARAGE
TYPE HV FANS

Maximum Efficiency 77%

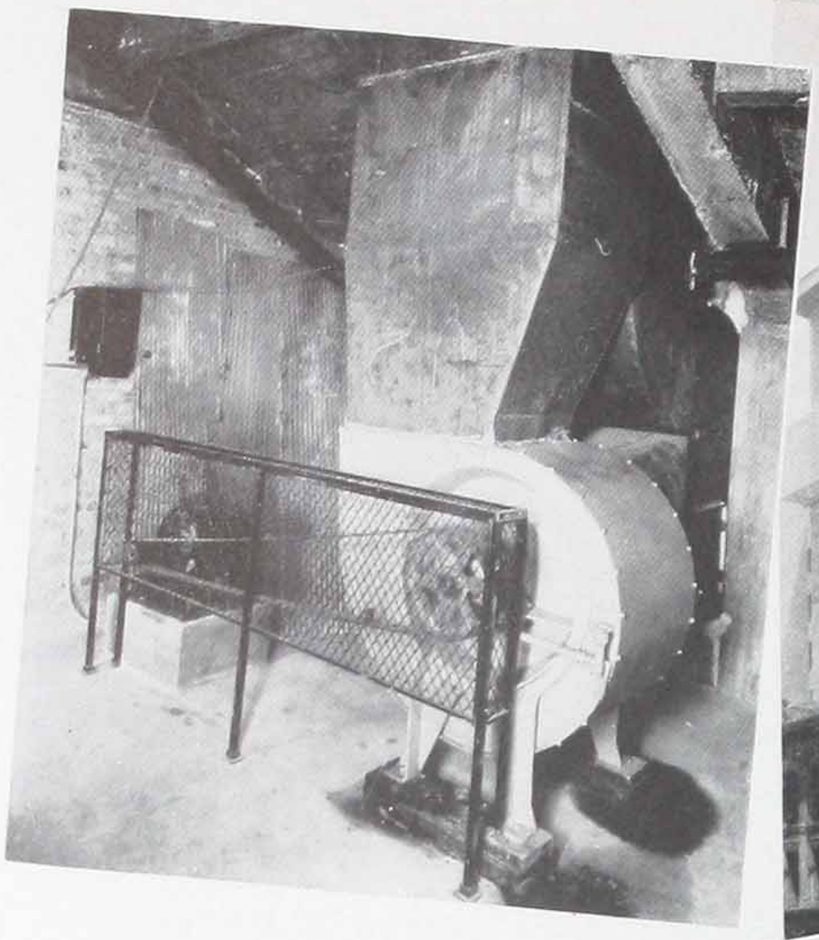
Safeguarding Economy Wherever Ventilation is Essential to Human Health and Comfort

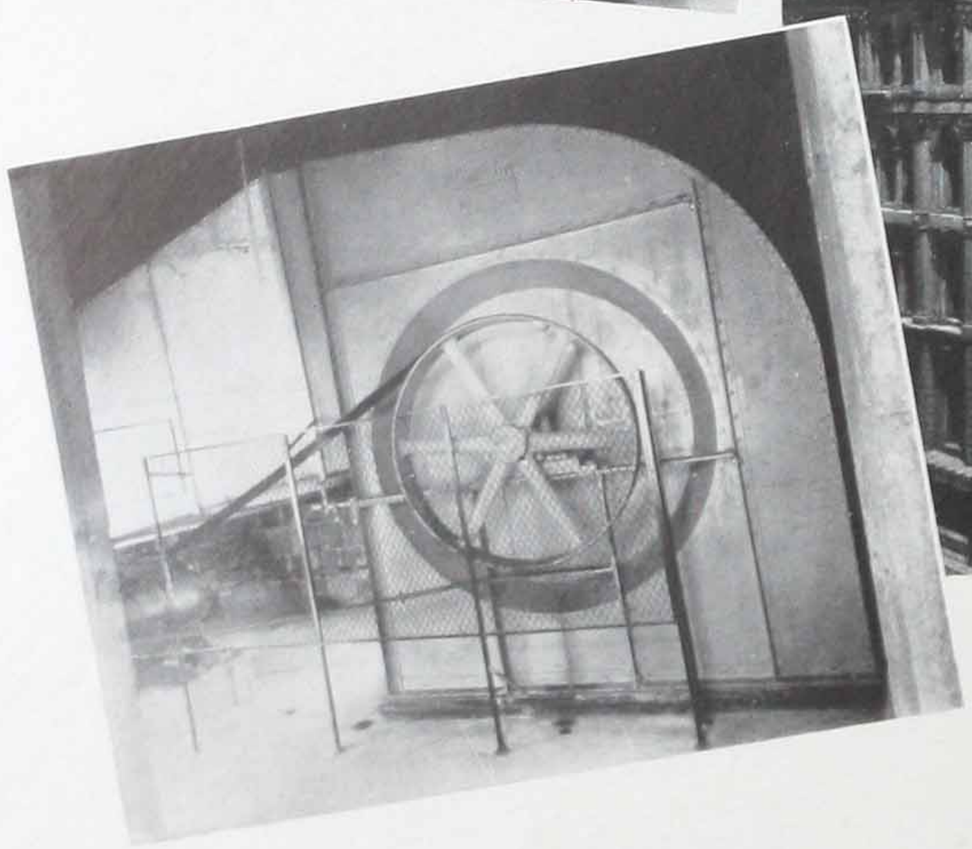
ENGINEERING REFERENCE BOOK NO. 54

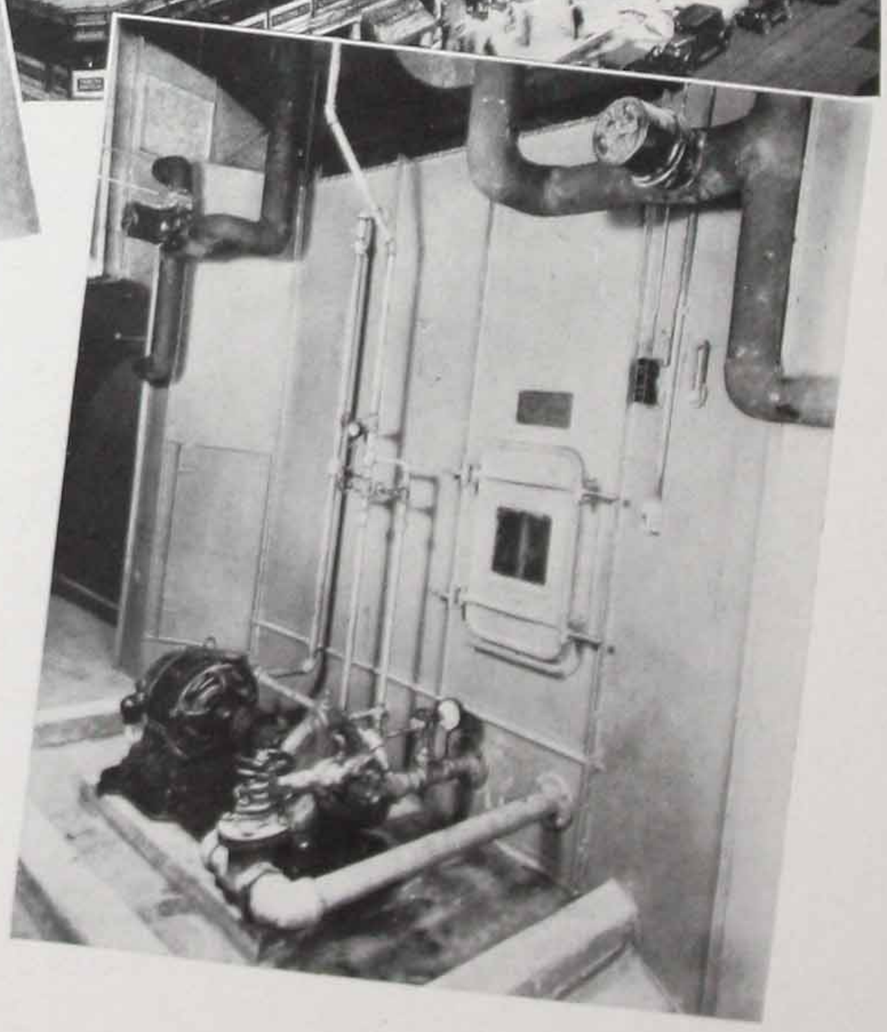
CLARAGE FAN COMPANY

Manufacturers of Fans, Air Washers, Unit Heaters, and Engines

KALAMAZOO, MICHIGAN SALES ENGINEERING OFFICES IN PRINCIPAL CITIES







UNITED MASONIC TEMPLE,
CHICAGO, ILLINOIS

Showing one of the large size 7 HV Fans for fresh air supply, a smaller HV Fan for exhaust, and the detail of one of the Clarage Air Washers. In respect to ventilation and air conditioning, this building is fully Clarage equipped—twenty-one HV Fans and eight Type V Air Washers are in continuous operation.

Architects: Rapp & Rapp, Chicago.

Contractors: Phillips, Getschow Co., Chicago.

CLARAGE

Service in the Field Confirms the Efficiency Claims Made for This Fan

IN the laboratory of actual service the Clarage Type HV Multiblade Fan stands thoroughly tested—*and approved.*

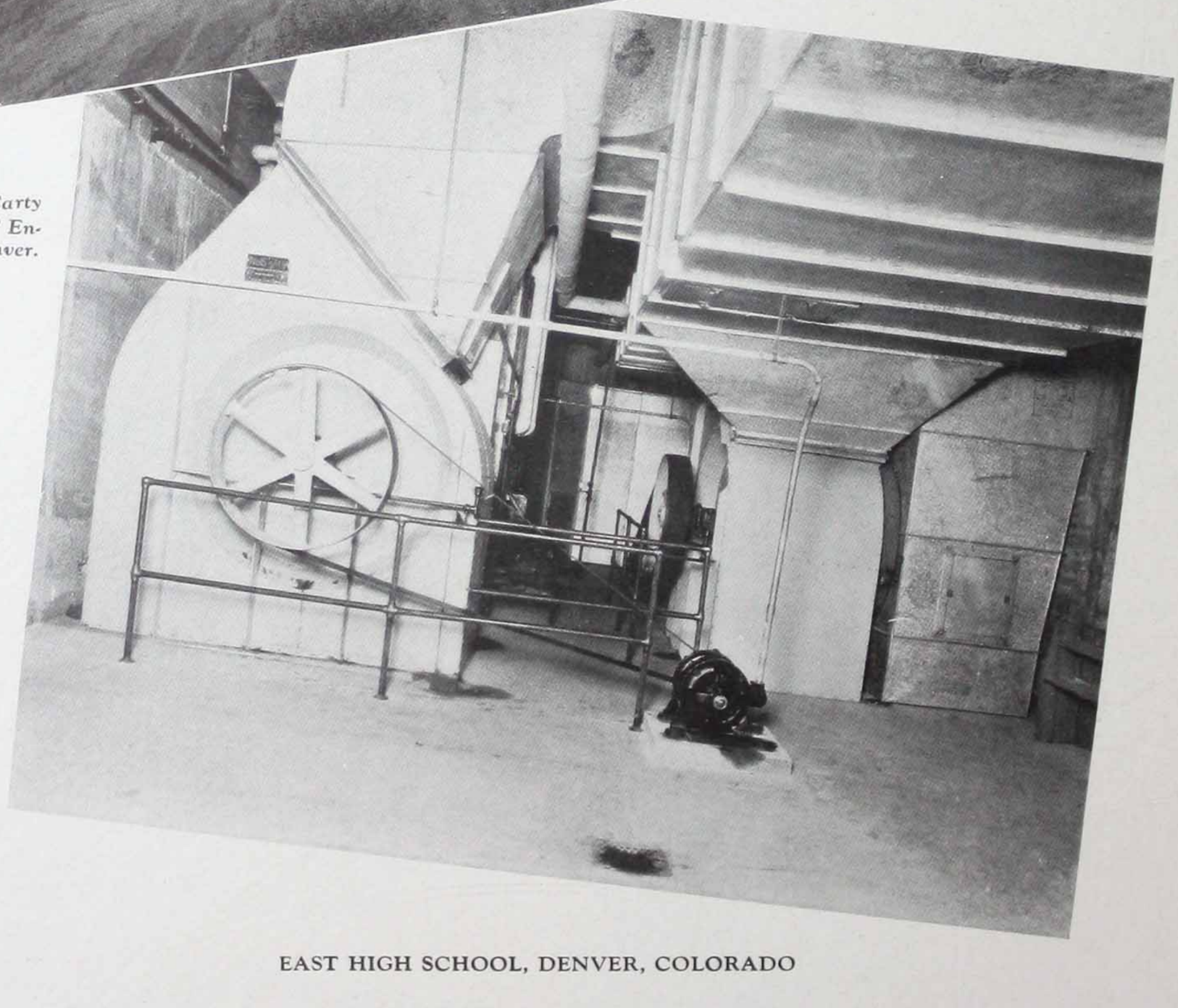
Hundreds of HV Fans have been in continuous operation over two years, yet not a single complaint has been registered against this equipment—not one motor has been overloaded—not one HV Fan has failed to perform as Clarage engineers specified that it would.

Service in the field fully confirms the statements made by this company for this fan when first announced, and consistently reiterated in Clarage advertising since that time. Service records of equipment installed prove beyond question of doubt, that the Type HV Fan develops the unparalleled high maximum efficiency of 77% not only when tested in accordance with the Standard Test Code—*but on the job as well.* Service records clearly demonstrate that Clarage engineering, as reflected in the fan's unmatched performance, is unmistakably sound.

Today, the HV Fan's exclusive power saving feature, due to the high efficiency of 77%, is a recognized factor wherever fan equipment for ventilating and air conditioning is specified and used. This power saving feature saves as high as 15% to 20% in operating cost. It makes possible with safety the use of smaller, less expensive motors for drive. It often enables an HV Fan one size smaller to meet exacting specifications, and thereby promote another desirable economy in first cost.

Leading architects and engineers throughout the country consistently recommend and endorse the Clarage HV Fan. Leading contractors use this equipment. Highest efficiency plus sturdy, dependable construction and silence of performance all combine to make the HV Fan the best in its class—reasons sufficient why you are likely to prefer it for your own work.

Architect: George H. Williamson, Denver.



Contractors: McCarty Johnson Heating & Engineering Co., Denver.

EAST HIGH SCHOOL, DENVER, COLORADO

This great school is one of the finest educational institutions in the country. Twenty-three HV Fans furnish the ventilation. The incoming air is washed and humidified by six Clarage Air Washers. Two of the complete systems are shown above.

Over Two Thousand Fans are Installed—Many of the Country's Leading Buildings are HV Fan Equipped

IN the comparatively short time that the Type HV Fan has been available, installations have been made in practically every state in the Union with a total of considerably more than two thousand units now installed. This product of advanced engineering, in view of its exclusive refinements, has gained wide acceptance. The fan industry records no greater success in all of its history.

The partial list of HV ventilating and air conditioning installations given below and on the succeeding page are evidence of the fact that the HV Fan has been selected for some of the finest and largest buildings—hotels, schools, theatres and churches—erected in America during the last few years. In short, Clarage HV Fan Equipment has established an enviable record—bears a good name and is widely used.

A LIST OF NOTABLE HV FAN INSTALLATIONS

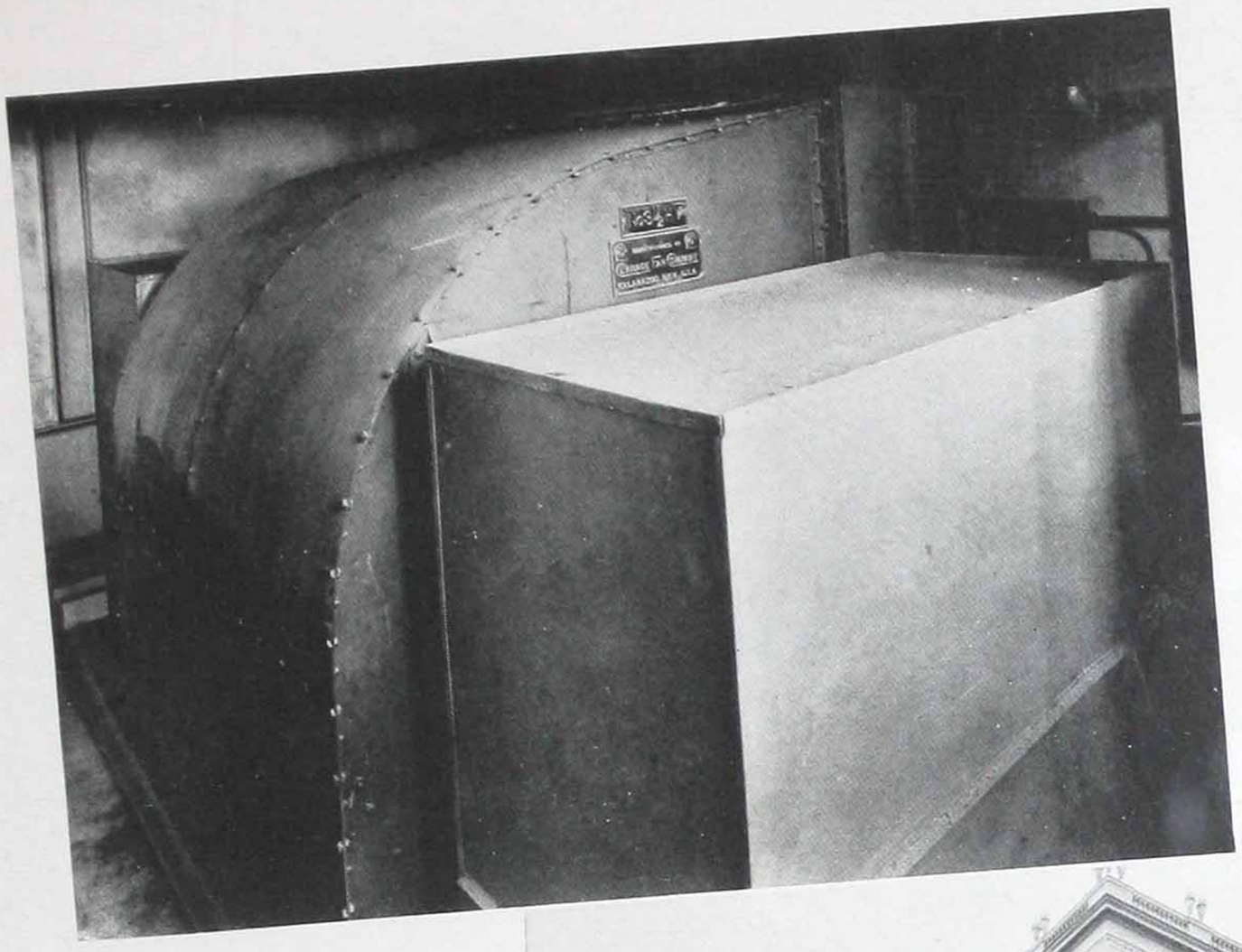
Cameo Theatre, New York City.
Capitol Theatre, Reading, Pa.
Central High School, Johnstown, Pa.
Central Lutheran Church, Minneapolis, Minn.
Central School, Rochester, Minn.
Chapel Theatre, Columbus, Ohio.
Colonial Theatre, Allentown, Pa.
Colonial Theatre, Richmond, Va.
Collingwood Ave. Presbyterian Church, Toledo, Ohio.
Cortland High School, Cortland, N. Y.
Country Club, Amherst, N. Y.
Drexel Hill Theatre, Clifton, Pa.
Earle Theatre, Philadelphia, Pa.
Earle Theatre, Washington, D. C.
East End High School, Duluth, Minn.
East High School, Denver, Colo.
East Lansing School, East Lansing, Mich.
East School, Menominee, Wis.
Easton Theatre, Easton, Pa.
Eau Claire High School, Eau Claire, Wis.
Edgewater Club, Santa Monica, Calif.
Elks Memorial Building, Chicago, Ill.
Ellwood City High School, Ellwood City, Pa.
Erlanger Theatre, Philadelphia, Pa.
Fidelity Trust Bldg., Philadelphia, Pa.
Fifteenth Ward School, Allentown, Pa.
Forty-Second Street School, Los Angeles, Calif.
Fort Morgan School, Fort Morgan, Colo.
Gates Theatre, Brooklyn, N. Y.
Grauman Chinese Theatre, Los Angeles, Calif.
Greenpoint Savings Bank, Brooklyn, N. Y.
Grove Theatre, Chicago, Ill.
Hanover Hospital, Hanover, Pa.
Hayes Hotel, Jackson, Mich.
Jewelers' Bldg., Chicago, Ill.
Keith's Fordham Theatre, New York City.
Lake Shore Athletic Club, Chicago, Ill.
Lincoln Hotel, Lincoln, Nebr.
Lincoln School, Los Angeles, Calif.
Loew's Theatre, Canton, Ohio.
Loew's Theatre, Norfolk, Va.
Loew's Theatre, Washington, D. C.
Loew's Astor Theatre, New York City.
Loew's 83rd St. Theatre, New York City.
Loew's Fordham Theatre, Bronx, N. Y.

Continued on Next Page

NOTABLE INSTALLATIONS—*Continued*

Loew's Hawthorne Amusement, Brooklyn, N. Y.
Loew's Gates Theatre, Brooklyn, New York.
Loew's Lexington Theatre, New York City.
Loew's New Rochelle Theatre, New Rochelle, N. Y.
Loew's Newark Theatre, Newark, N. J.
Longmont High School, Longmont, Colo.
Lydick School, South Bend, Ind.
Marks' Bros. Theatre, Chicago, Ill.
Martha Wilson Hospital, Chicago, Ill.
Masonic Temple, South Bend, Ind.
Massillon State Hospital, Massillon, Ohio.
Michigan State College, Lansing, Mich.
Michigan State Prison, Jackson, Mich.
Mitchell School, Denver, Colo.
Muhlenberg College, Muhlenberg, Pa.
National Theatre, Richmond, Va.
New Palace Theatre, Chicago, Ill.
New York University, New York City.
North Shore Theatre, Chicago, Ill.
Norwood Theatre, Norwood, Pa.
Norva Theatre, Norfolk, Va.
Olds Hotel, Lansing, Mich.
Olympic Theatre, Brooklyn, N. Y.
Oriental Theatre, Chicago, Ill.
Orpheum Theatre, Rockford, Ill.
Orpheum Theatre, Madison, Wis.
People's Church, Chicago, Ill.
Pershing Palace, Chicago, Ill.
Proctor's 86th St. Theatre, New York City.
Prospect Street School, Salem, Ohio.
Randolph High School, Randolph, N. Y.
Ravenswood Masonic Lodge, Chicago, Ill.
Riverside Drive Apartments, New York City.
Rogers Hotel, Bloomington, Ill.
Saint Joseph Parochial School, South Bend, Ind.
San Pedro Young Men's Christian Ass'n., San Pedro, Calif.
Saint Mathias School, Chicago, Ill.
Saint Mary's Public School, Saint Mary's, Pa.
St. Anne's Church, Minneapolis, Minn.
Sacred Heart School, Robinsdale, Minn.
Saxe Theatre, Kenosha, Wis.
Seneca Hotel, Chicago, Ill.
Sherman Hotel, Chicago, Ill.
Shoreland Hotel, Chicago, Ill.
St. Mary's School, Faribault, Minn.
Spaulding Hotel, Duluth, Minn.
Stanley Theatre, Pittsburgh, Pa.
Stanley Crandall Theatre, Baltimore, Md.
State Theatre, Easton, Pa.
State Theatre, Harrisburg, Pa.
State Theatre, Kalamazoo, Mich.
Stevens Hotel, Chicago, Ill.
University of Notre Dame, South Bend, Ind.
United Masonic Temple, Chicago, Ill.
Ure Theatre, Chicago, Ill.
Union Trust Bldg., Chicago, Ill.
Universal Films Theatre, New York City.
University of Illinois, Urbana, Ill.
United Studios Theatre, Kenosha, Wis.
Uptown Theatre, Chicago, Ill.
Uptown Theatre, Milwaukee, Wis.
Vocational School, Pasadena, Calif.
Washington-Duke Hotel, Durham, N. C.
Washington Junior High School, Pasadena, Calif.
Washington School, Los Angeles, Calif.
Washburn High School, Minneapolis, Minn.
Webster Hall, Pittsburgh, Pa.
Westchester Biltmore Club, Rye, N. Y.
West Tremont Ave. Theatre, New York City.
West Virginia State Capitol, Charleston, W. Va.
Willard Theatre, Chicago, Ill.
Woolworth 42nd St. Store, New York City.
Worcester Theatre, Worcester, Mass.
Young Men's Christian Ass'n., Chicago, Ill.

CLARAGE

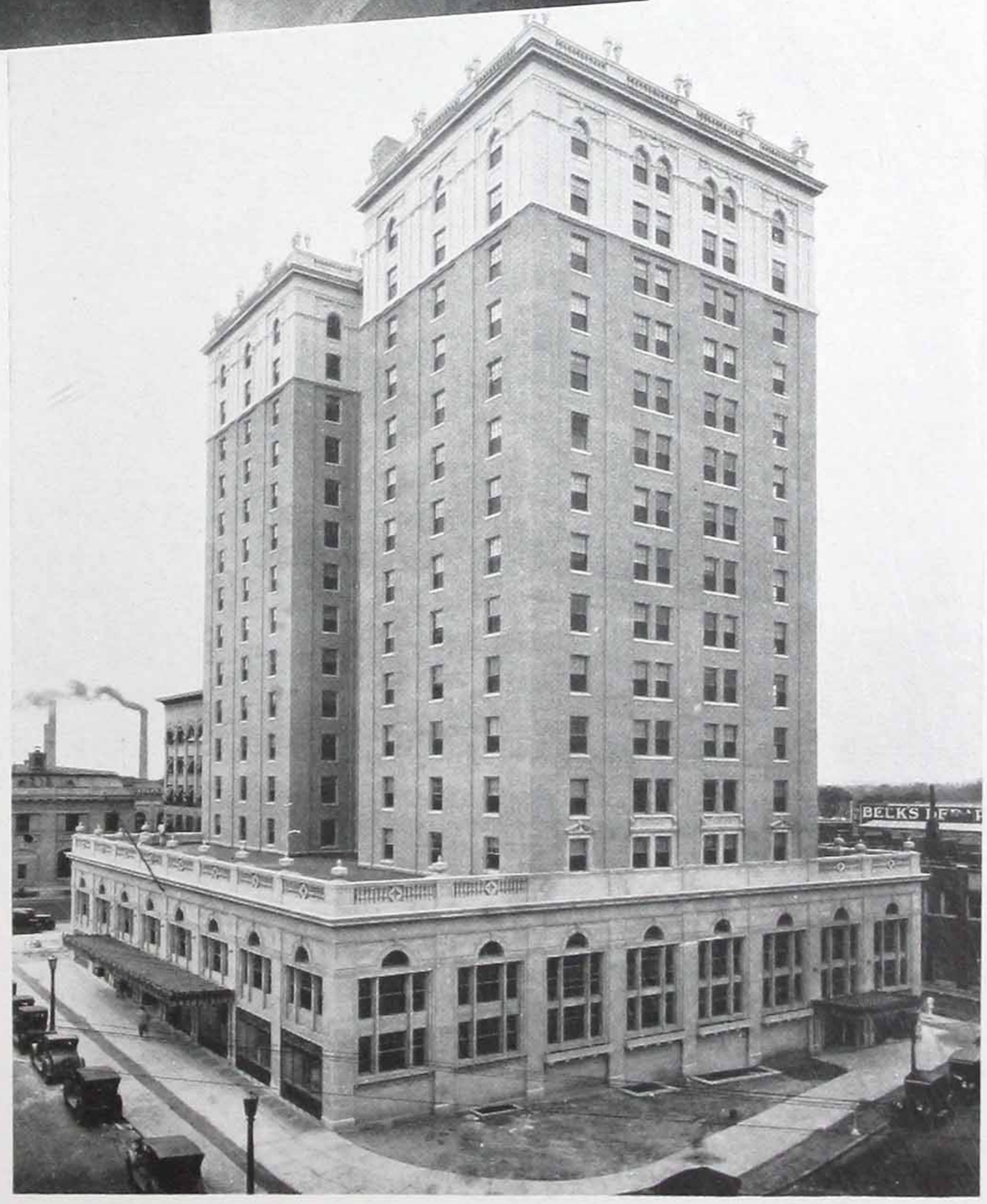


Architects: Stanhope S. Johnson and R. O. Brannon, Lynchburg, Virginia.

Contractors: Dermott Heating Co., Durham.

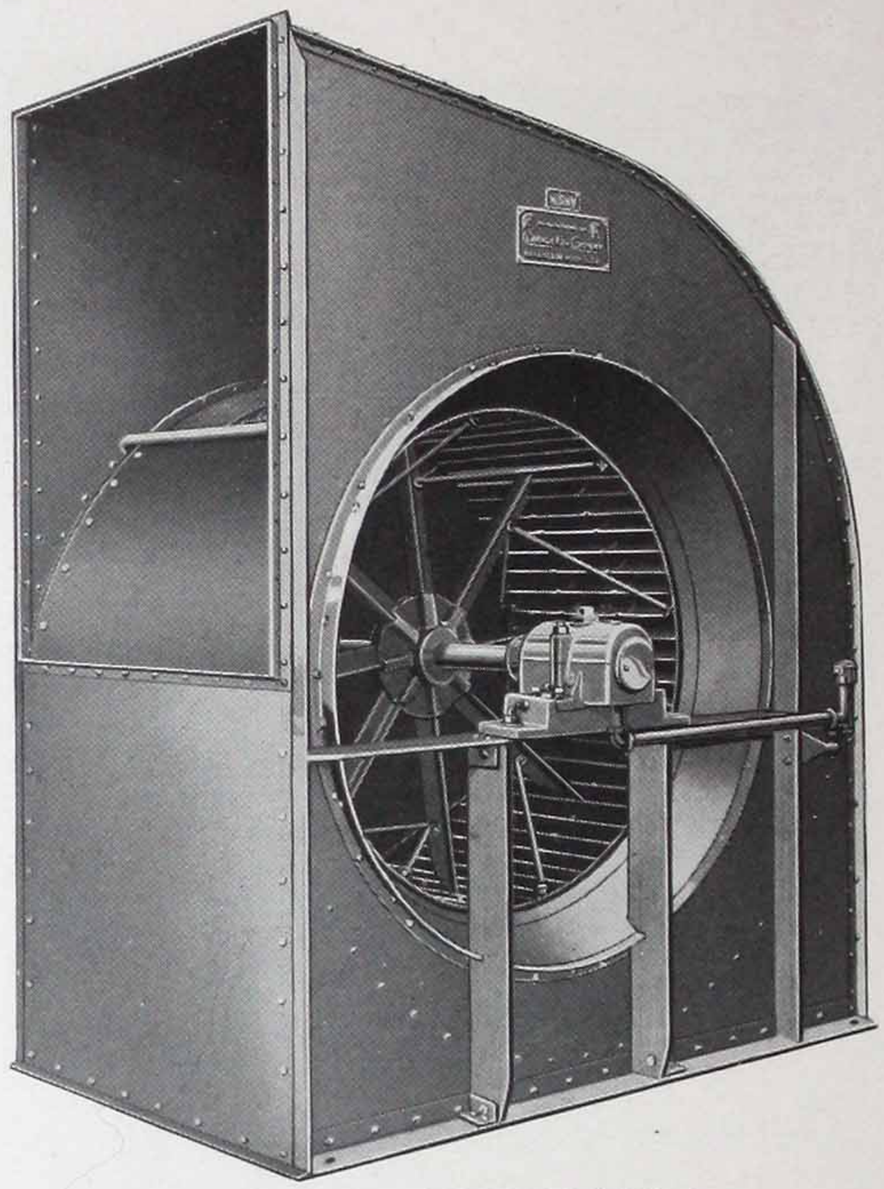
WASHINGTON-DUKE HOTEL,
DURHAM,
NORTH CAROLINA

South of the Mason and Dixon Line, as well as North of it, the HV Fan is used extensively. An outstanding Southern installation is this splendid hotel at Durham. Four large HV Fans, one of which is shown above, furnish adequate ventilation for this building.



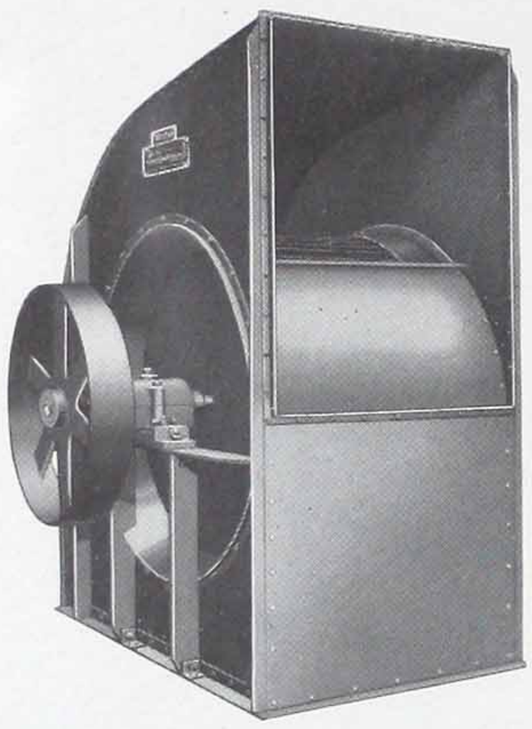
TYPE HV FANS
77% EFFICIENT

Note trim, sturdy appearance of this HV Fan, particularly the generous size of bearings and that the steel bearing supports run to the foundation line, a feature offered as standard equipment on Clarage Fans.



INLET VIEW, ARRANGEMENT A

The Single Width Fan is built either Single or Double Inlet.



DRIVE SIDE, SINGLE INLET, ARRANGEMENT A

Type HV Fan—Sizes 3½ to 9

THE Clarage HV Fan is manufactured in an ample range of sizes, covering every requirement as encountered in ventilation and air conditioning work. The architect, engineer or contractor need not go outside this efficient, well-built line of equipment to economically and satisfactorily meet any problem in the field. The following pages are devoted to the three general types of construction as used in building the equipment and to a discussion of constructional features with important notes on drive, Standard Arrangements, etc.

In the larger sizes, 3½ to 9, the HV Fan is furnished to meet the particular requirements of each individual installation. After assembly the unit is not adjustable for direction of discharge, although any direction of discharge may be specified at time of ordering and the fan will be built accordingly. The fan rotation may be changed after installation, if desired.

The housing is of heavy gauge sheet steel rigidly braced by angles and finished in workmanlike manner. Inlet and outlet connections permitting easy attachment of sheet metal ducts are provided as standard equipment with proper canvas connections furnished as an extra where specified. The wheel is thoroughly braced as illustrated on page 13, accurately balanced, and is supported by a shaft of ample size which eliminates vibration even though the operating speed is considerably higher than customary practice.

The Clarage Special Bearings, *self-aligning, dust-proof, and oil-tight* are mounted on structural steel supports *extending to the floor line.* Wear in the bearings may be taken up by a simple adjustment.

The HV Fan in these larger sizes is so constructed that it may be easily taken apart to

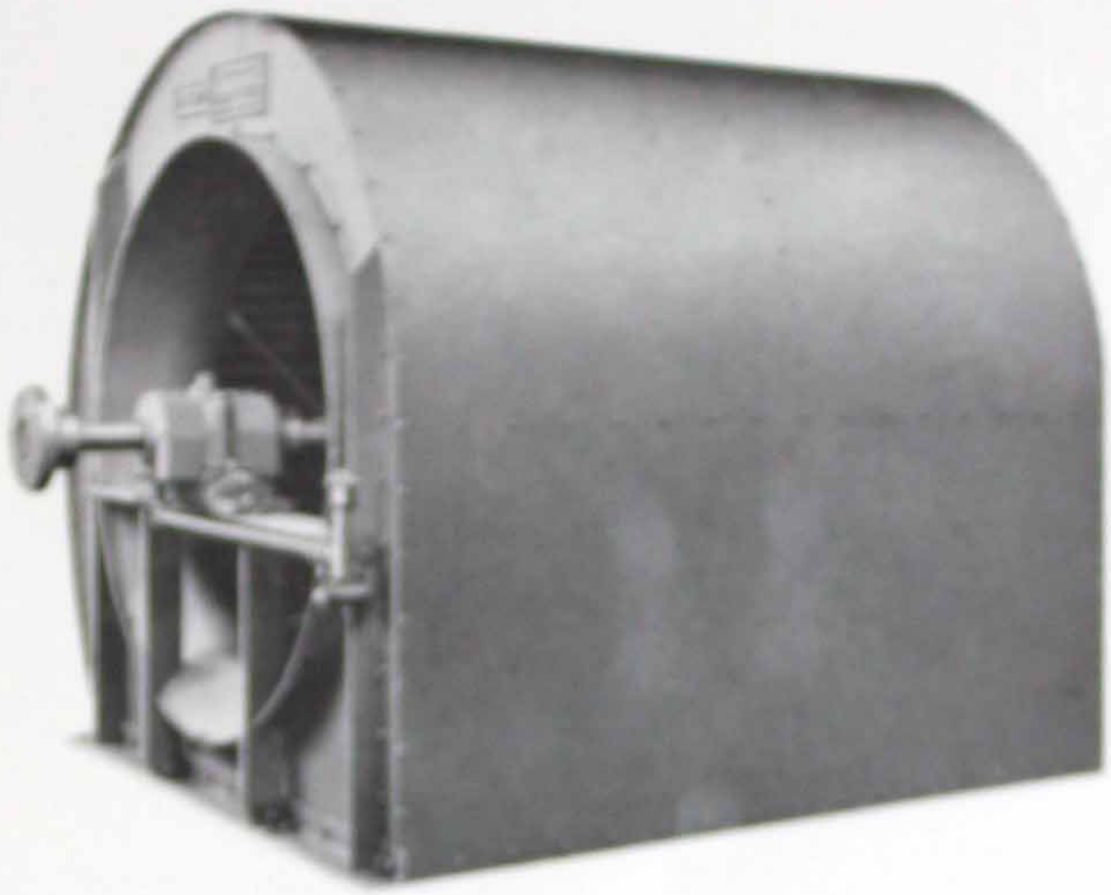
gain entrance into buildings through comparatively small openings, and it is not a difficult task to reassemble the unit after entrance has been made. The only limiting factor is the wheel which cannot be "knocked down."

Double Width Fan

The HV Fan, sizes 3½ to 9, double width is constructed in the same general high grade manner as is the single width fan, except that size for size the housing is practically twice the width, and the unit is furnished with two wheels instead of one.

The double width fan is recommended principally to meet two conditions: first, where insufficient head room will not permit the installation of a single width fan of proper size (for instance if the equipment is large or if the apparatus is to be installed in an old building where no provision has been previously made for ventilation by means of a central fan system); second, where a higher operating speed is desired in order that the unit may be direct connected to a standard speed motor. The double fan has an over-all height decidedly less than the over-all height of a single width fan of same capacity, while its operating speed is considerably higher for any given requirement. These advantages account for the fact that the double width unit is widely used.

The Clarage HV Fan, double width is built only as a blower with two inlets and is furnished in the Standard Arrangements indicated on page 16. Capacities for this fan can be easily computed from the Performance Tables by following the rules given on page 19.

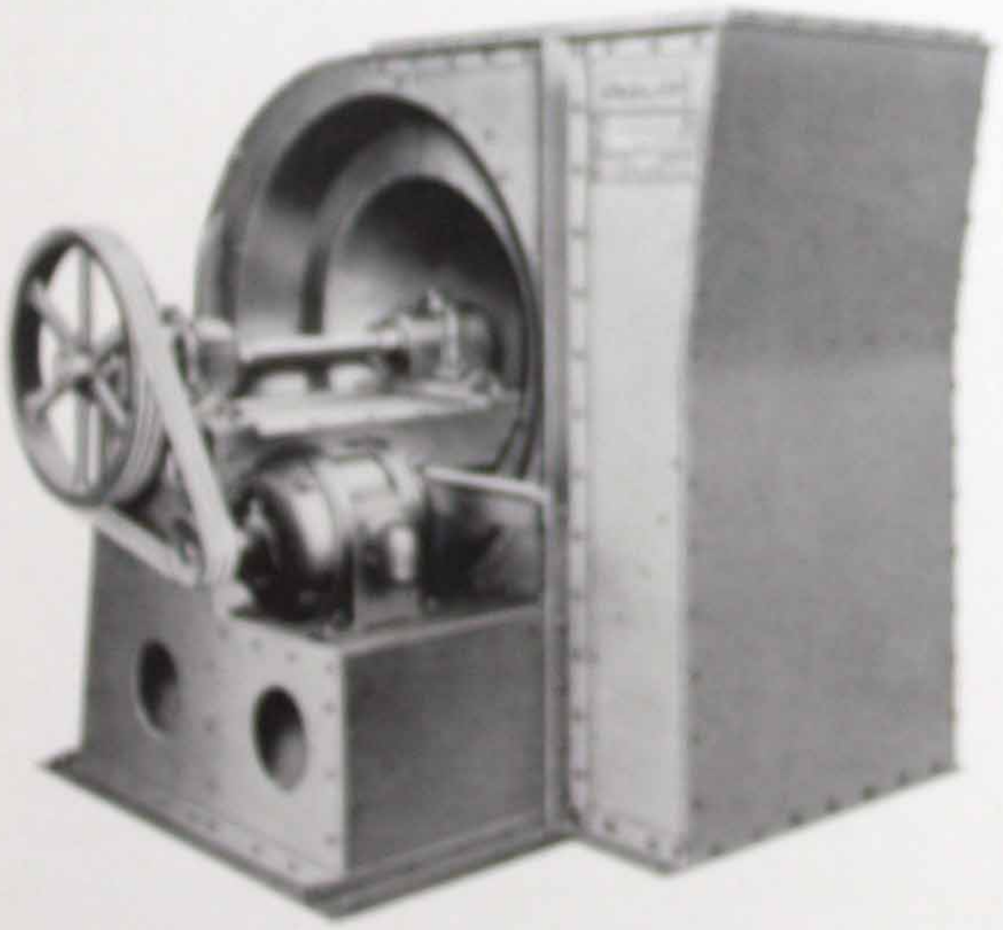


DOUBLE WIDTH, DOUBLE INLET, ARRANGEMENT C—1A HOUSED

7-8 Housed Fan

The HV Fan, sizes 3½ to 9, is built ⅞ housed single and double width in the Standard Arrangements noted on page 15. It is not furnished in sizes smaller than the 3½.

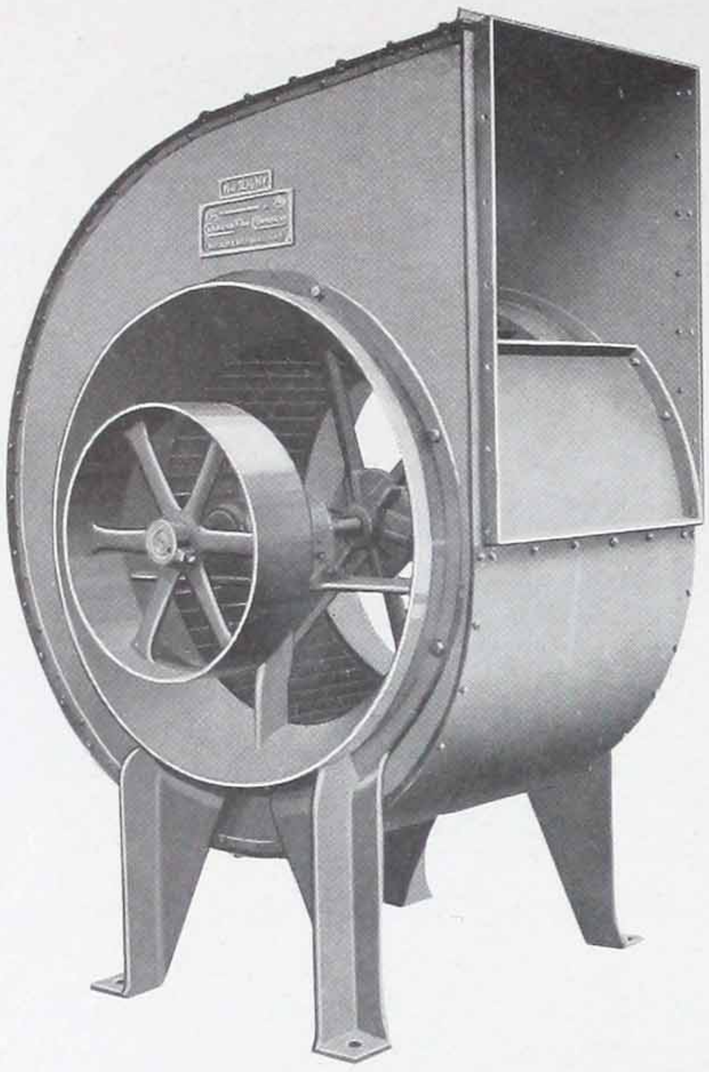
Detailed Data on sizes 1½ to 9:
Features of Construction, Pages 11 to 15.
Performance Tables, Pages 16 to 17.
Dimension Charts, Pages 42 to 46



TEXROPE DRIVE—ARRANGEMENT F

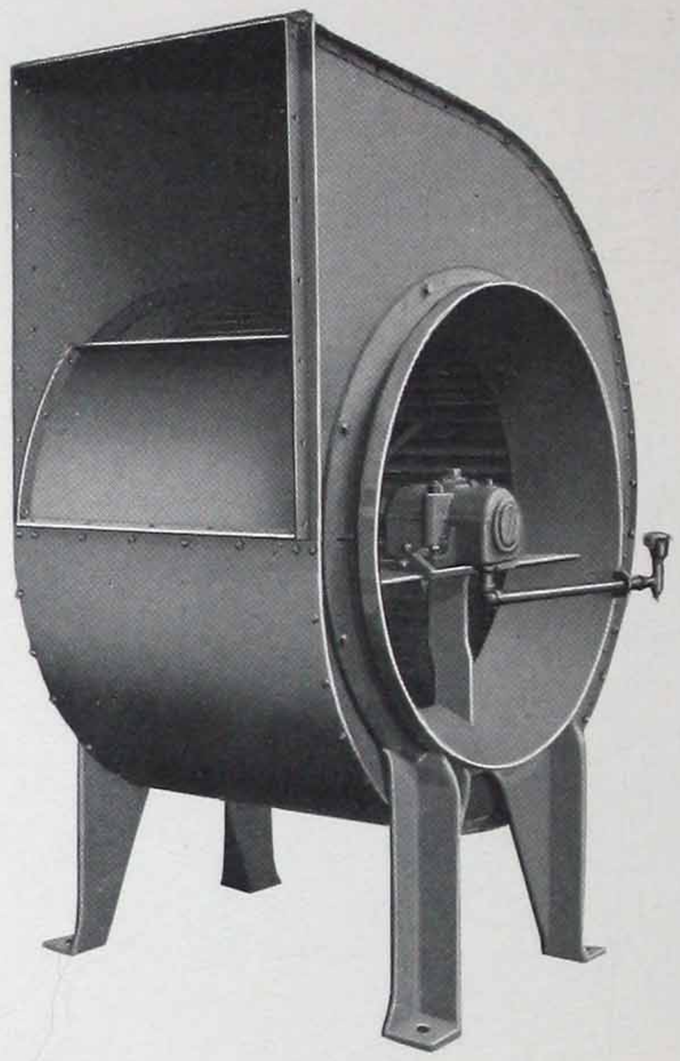
Arranged as shown, the HV Fan is well adapted to any approved sheave center drive—very compact unit requiring small floor space.

In view of its unparalleled efficiency, silence of operation and dependable characteristics, it is accepted practice with many architects and engineers to specify the Clarage HV Fan outright. Standard Specifications which may prove helpful are given on page 18.



DRIVE SIDE, DOUBLE INLET, ARRANGEMENT A

Note: Single Width Fan is built either Single or Double Inlet.



INLET VIEW, ARRANGEMENT A

Type HV Fan—Sizes 1½ to 3

THE HV Fan, sizes 1½ to 3, is built with a housing of sheet steel and with heavy cast iron side plates. The side plate castings are massive (note cast iron arm construction in Arrangement B Fan), offering rigid support to the Clarage *self-aligning, dust-proof, oil-tight* Bearings, the wheel and shaft, and to the housing. This Clarage construction is the most rugged on the market which accounts for the excellent service records established by the HV Fan in these smaller sizes.

The wheel is constructed in the same high grade manner used in building the wheel for the larger HV Fan. It is given both a static and running balance test (see page 13).

Double Width Fan

Where head room is limited or where a higher operating speed is desired for direct motor drive, the double width fan is recommended. As is the case in the large HV sizes, a double width fan has an over-all height considerably less than a single width fan of same capacity, while its operating speed will be higher for any specified performance. The double width fan is only furnished as a blower with two inlets and is equipped with two wheels. It is built in the Standard Arrangements shown on page 16. To determine capacities, use the Performance Tables for the single width fan following the instructions given on page 19.

The HV Fan, sizes 1½ to 3, is not furnished ⅞ housed.

Reversible and Adjustable Feature

Another advantage incorporated into the design and construction of the HV Fan, sizes 1½ to 3, is the method used in securing the housing to the side plate castings. Eight tap bolts are used and the holes for the tap bolts are spaced equidistant and drilled to template. This Clarage feature permits the fan to be reversible for any of eight directions of air discharge, either clockwise or counter-clockwise rotation, making possible a total of sixteen

different discharge combinations with the same HV Fan.

A new layout of ventilating equipment need not mean bad angles in the duct work or a new fan—the Clarage HV Fan is quickly adapted to the new conditions. Two men in twenty minutes' time at the outside can easily change both direction of air discharge and fan rotation —it is a simple job. Clarage Bulletin 1000 illustrates the sixteen discharge combinations available.

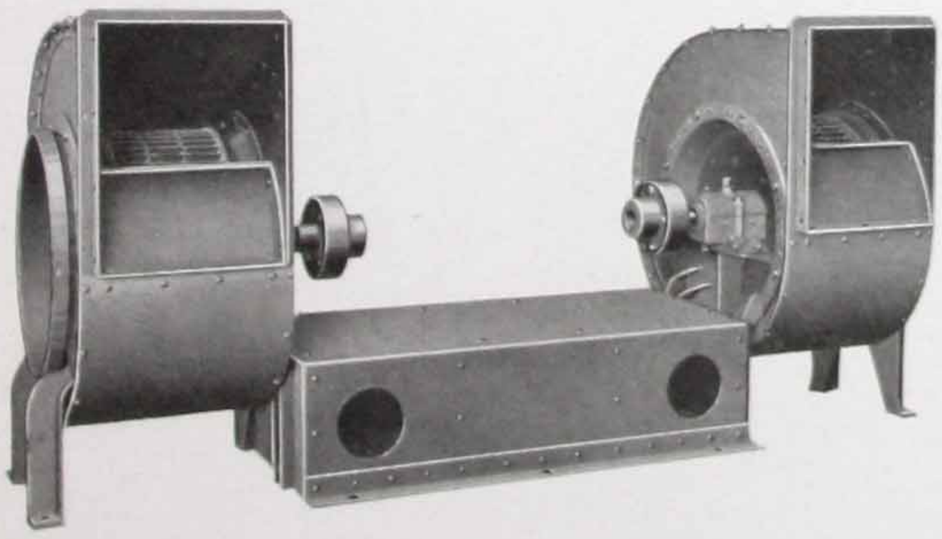
This special side plate construction also allows the fan wheel to be easily removed from the housing for cleaning and inspection, since both cast iron side plates cover openings in the fan housing which are larger in diameter than the fan wheel.

Double Fan

The Double HV Fan, an exclusive Clarage feature, consists of two standard single width fans connected as shown with drive in the center. The unit is regularly built in sizes 1½ to 3, having the cast iron side plate construction. It is principally used where two different directions of air discharge are required, eliminating the necessity for a double discharge fan which cannot offer the same high efficiency. The double fan requires small headroom, another advantage. Capacities are computed as for the standard double width HV Fan.

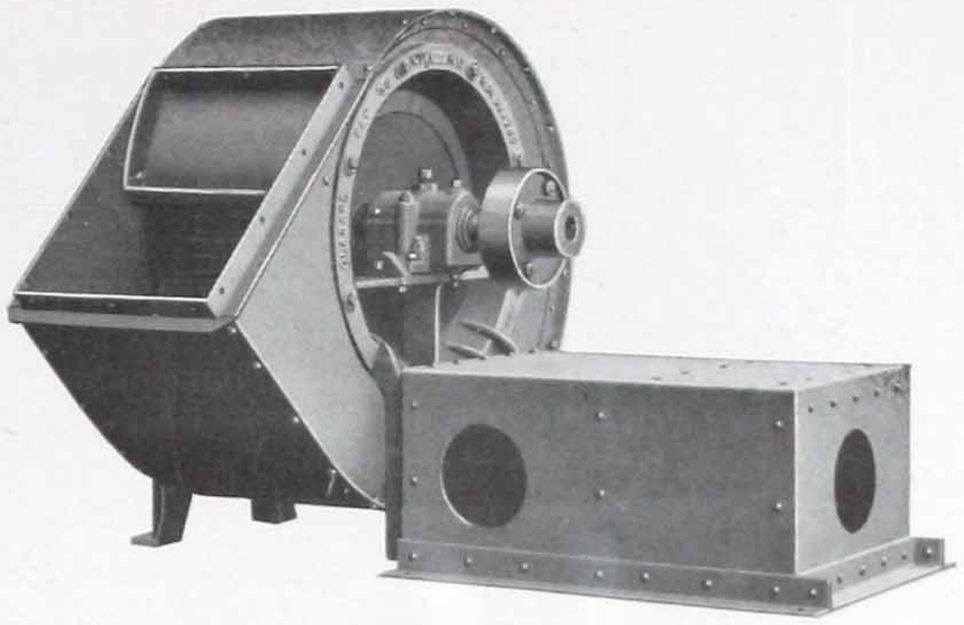
Detailed Data on sizes 1½ to 3:

Features of Construction, Pages 13 to 15.
Performance Tables, Pages 20 to 25.
Dimension Charts, Pages 38 to 41.

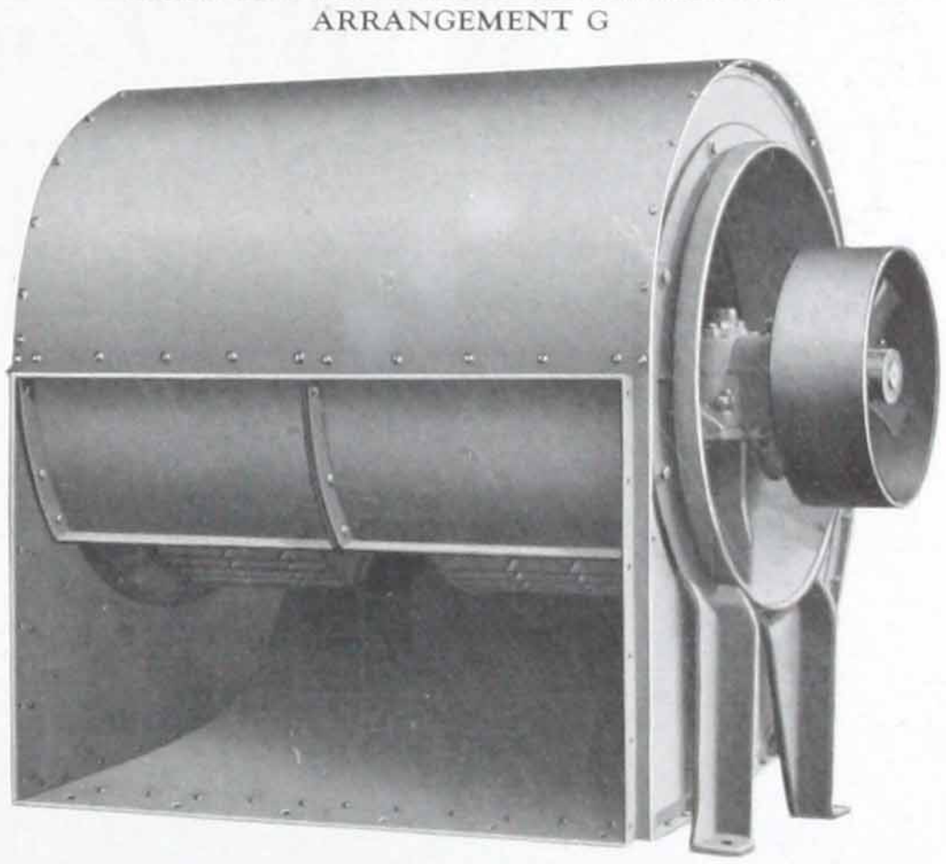


DOUBLE FAN ARRANGED FOR DIRECT MOTOR DRIVE, ARRANGEMENT I

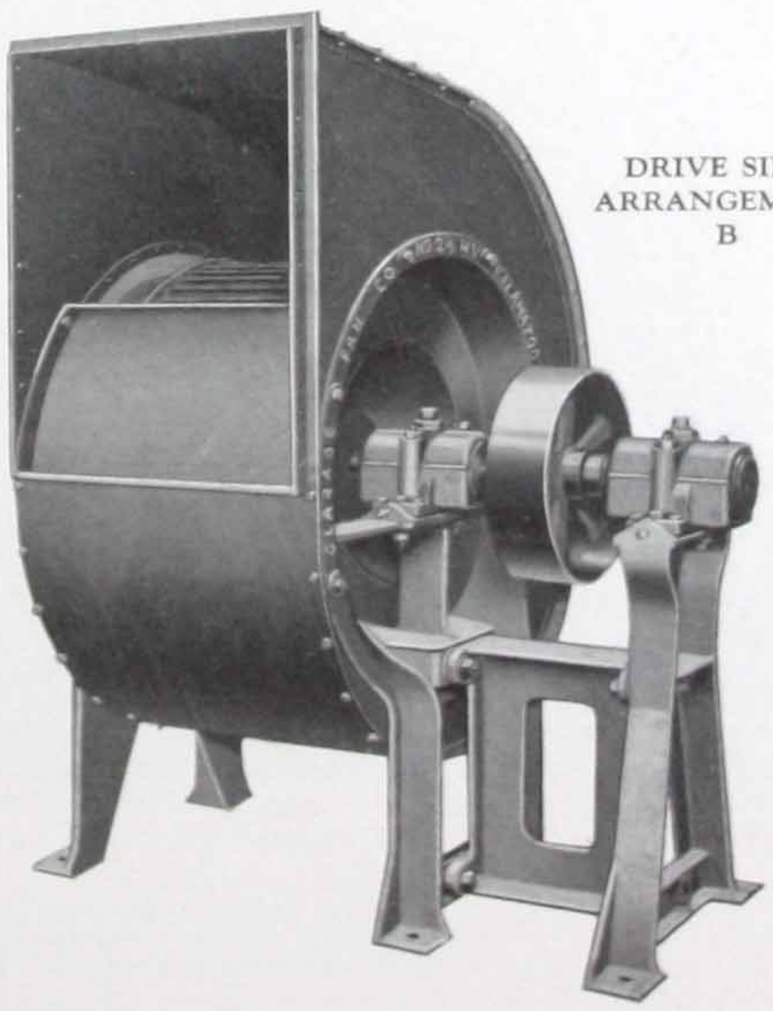
Note: The Double HV Fan is also furnished in Arrangement B for belt drive with pulley in center.



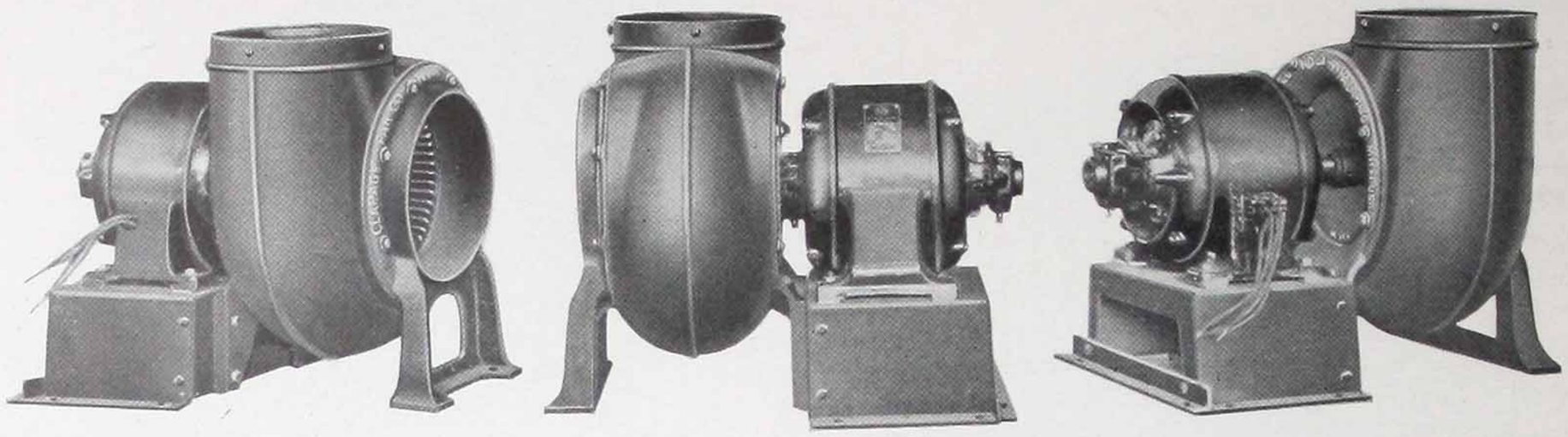
EQUIPPED FOR DIRECT MOTOR DRIVE, ARRANGEMENT G



DOUBLE WIDTH, DOUBLE INLET, ARRANGEMENT A



DRIVE SIDE, ARRANGEMENT B

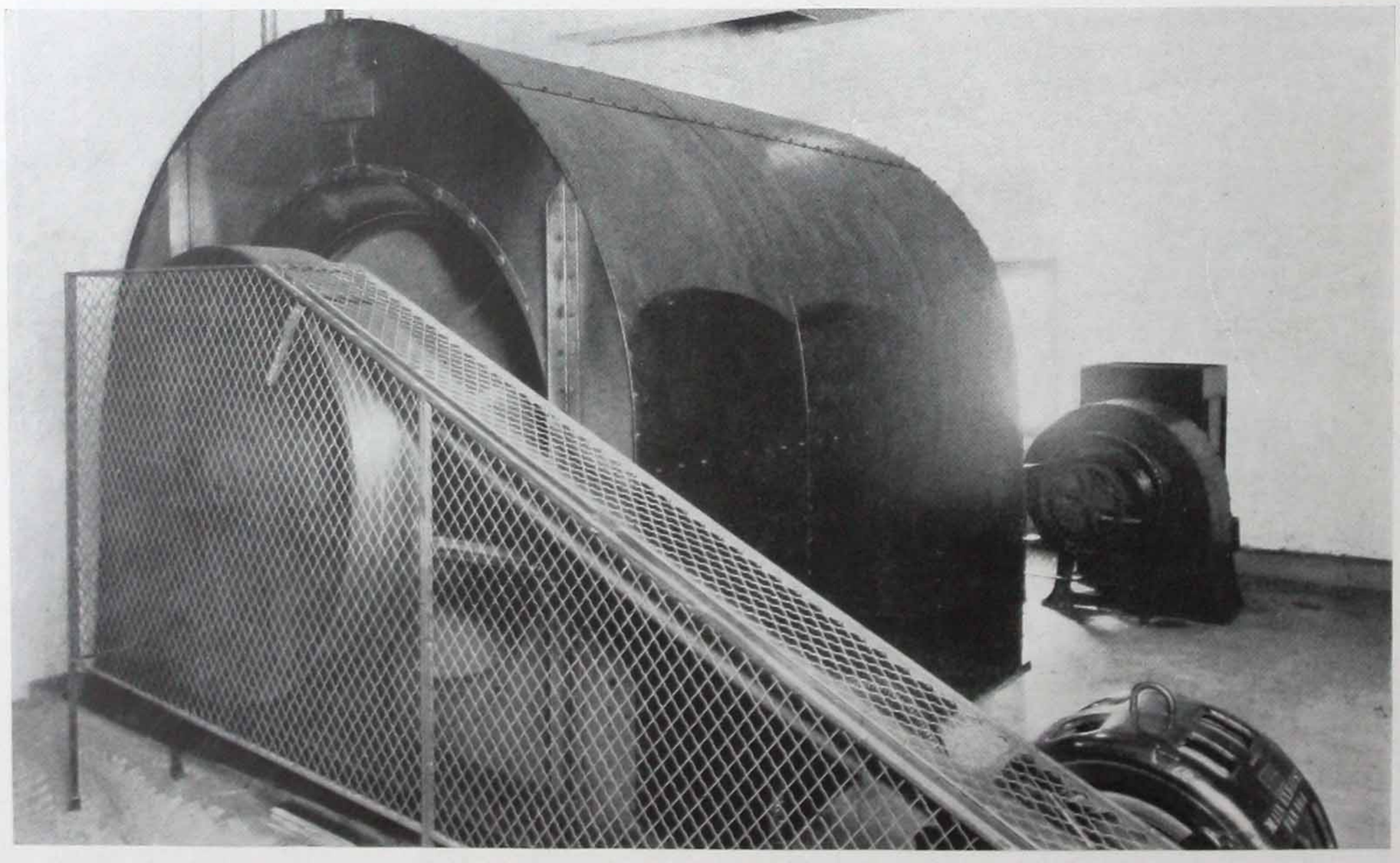


MOTOR DRIVEN UNITS, ARRANGEMENT E

Type HV Fan—Sizes ½ to 1¼

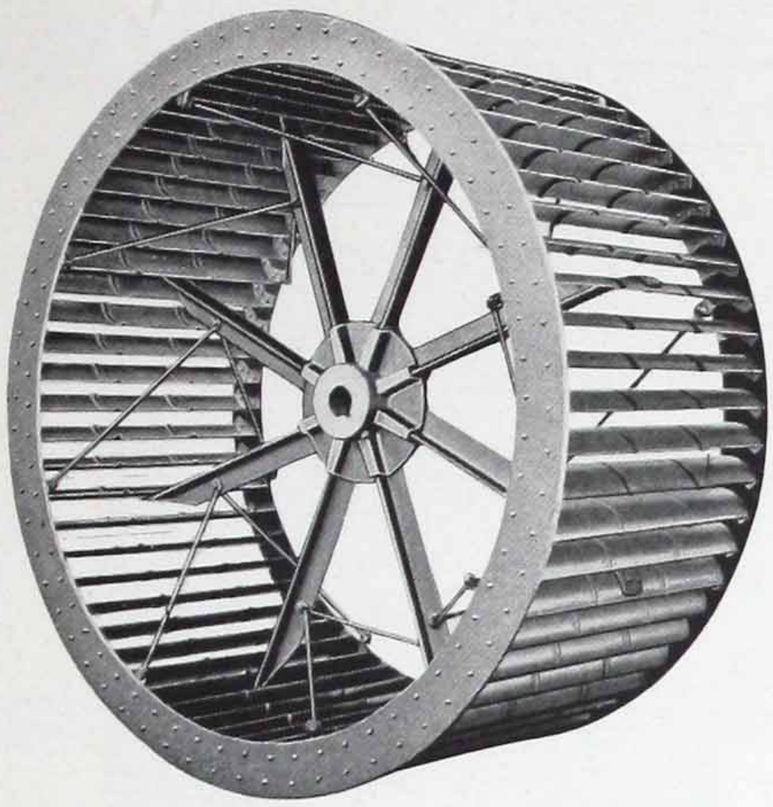
THE HV Fan in these small sizes is widely used for ventilation work of all kinds—ventilating toilets, telephone booths, cellars, bank vaults, etc., supplying fresh air to small offices and staterooms, and removing fumes from process work and chemical laboratories. It is also used extensively in small cooling and drying installations.

The fan is regularly furnished in Arrangement E for direct motor drive, as shown above, or in Arrangement B for belt drive. It is equally as well designed and as sturdily built as are the larger HV units, offering the same high efficiency, power saving feature. Ask for Bulletin 541, giving complete description and performance tables.

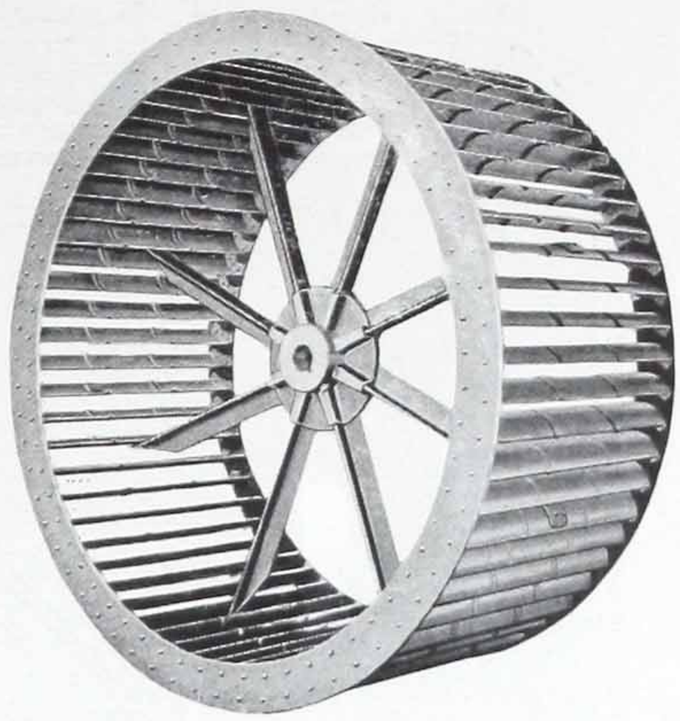


DOUBLE WIDTH HV FAN, UPTOWN THEATRE, CHICAGO, ILLINOIS.

The total Clarage equipment used for ventilation and air conditioning in this magnificent theatre includes eight Type HV Fans and three Type V Washers. It is one of a long list of prominent American theatres now using HV Fans.



HV WHEEL FOR FANS LARGER THAN SIZE 3 —NOTE BRACING



HV WHEEL USED IN FANS SIZES 1½ TO 3 INCLUSIVE

Features of Construction, Type HV Fan, Sizes 1½ to 9

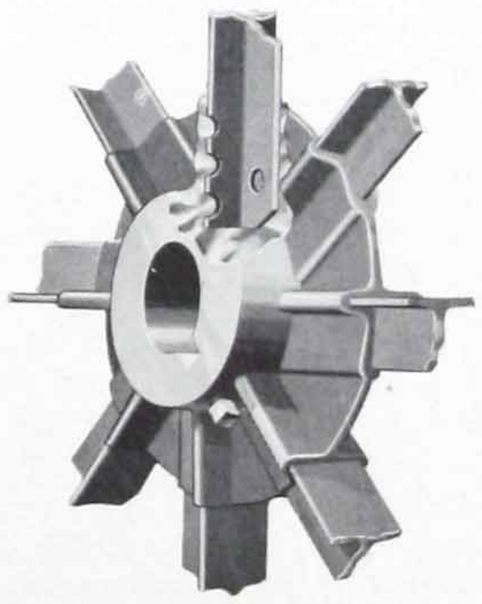
Type HV Wheel

THE unprecedented high efficiency, low operating speed and silent performance of the Type HV Fan is due in a large measure to the design of the fan wheel. The HV Fan Wheel consists of a large number of shallow steel blades securely riveted to the side rims. The blades are specially curved and tipped forward in the direction of rotation; their form in conjunction with their number making possible the noiseless delivery of large volumes of air at low pressures with a minimum expenditure of power.

All blades are formed in dies on powerful presses and every blade for a certain size of wheel is identical in form, thickness and weight, and of sufficient strength so that no perceptible deflection will occur even under the most severe operating conditions.

The wheel spider consisting of steel T-arms in a heavy iron hub is cast in an accurately machined metal flask which locates the arms equidistant and in a true plane. This is an excellent feature and a decided improvement over ordinary practice, since with some methods it is often necessary to bend the arms after they are cast in the hub perceptibly weakening the entire spider assembly. As a further safeguard, the part of every T-arm inserted into the cast iron hub is punched along both sides of the flange and through the center of the web to insure that the arms are permanently anchored (see illustration). To loosen an arm from the hub of a Clarage wheel would require the rupture of the hub casting through a double shear—not even a remote possibility in fan operation.

The wheel side rims are extra heavy to insure rigid support to the blades and, in sizes No. 3½ and larger, the wheels are rigidly braced by diagonal rods running from rims to spider as shown by the illustration.



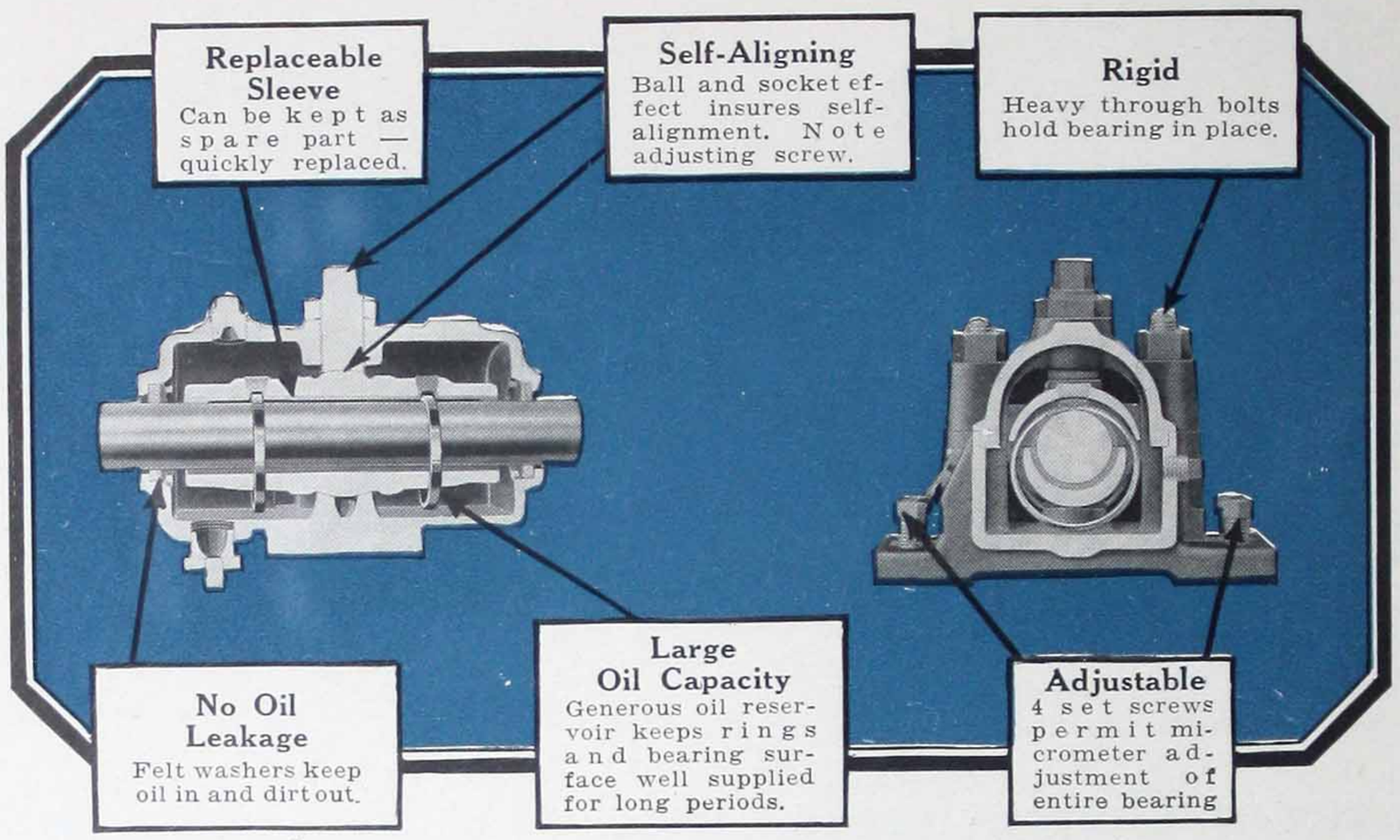
HUB AND SPIDER CONSTRUCTION

The double width, double inlet HV Fan is equipped with two single width wheels, and each wheel is built with back plate but otherwise of standard construction. The back plate permits each wheel to handle its own share of the work, thereby securing more uniform operating results.

Every wheel after assembly is carefully balanced and tested, assuring a true running wheel free from vibration. The wheel is keyed to the shaft and fitted with set screws over the key.

Fan Housing

The housing is built from high quality, blue annealed open hearth steel of heavy gauge, and in the larger sizes is thoroughly braced by riveting to a rigid angle and channel iron frame. Housings for Type HV Fan, size 3 and smaller, are of equally rigid construction and addi-



tional strength is secured by the use of the cast iron side plates.

Outlet

A Rectangular outlet is furnished which enables the outlet duct to be readily attached with through bolts. An Inlet ring of similar construction is provided for easy attachment to the round intake duct. On sizes 3½ and larger the housing side bracing is built and punched for attachment of rectangular ducts, if desired.

Fan Shaft

The fan shaft is made from open hearth steel accurately ground to size, and great care is taken to have it perfectly straight and cylindrical. Each shaft is properly proportioned to insure minimum deflection and to prevent any whipping action of the wheels, allowing the unit to run perfectly smooth.

Bearings

To a marked degree the established reputation of all Clarage Fan Equipment can be attributed to the high quality of the Clarage Special Bearings with which the Type HV Fan is regularly equipped. They are without doubt the best fan bearings that the market affords.

The Clarage Bearing consists of two distinct and separate parts: the inner sleeve and the outer case. The inner sleeve is split (Clarage feature) and may be easily removed and replaced without removing the fan shaft. This sleeve is held in the case in an adjustable ball and socket support which allows self-alignment in every plane and within large limits. It is lined with best grade babbitt, and is lubricated by means of two finished oil rings which carry a liberal supply of oil to the large bearing surface from the reservoir below.

The outer bearing case is made in two parts. The upper part or cap is held in place by two bolts and when the nuts are removed may be lifted off, giving free access to the sleeve. The lower part forms an oil reservoir of unusual capacity. For instance, a $1^{15}/_{16}$ bearing, size 1¾ HV Fan, holds nearly a quart of oil, the other sizes in proportion. Compare this with the few spoonfuls held by most ring oiling bearings and you have a fair conception of the generous proportions along which these bearings have been designed. The whole outer case is built to rest on four set screws for easy adjustment as to height, but when adjusted is held rigidly to the bearing support by heavy through bolts.

Felt washers (exclusive with Clarage), fitting snugly around the shaft at each end of the bearing case, protect against the entrance of dirt and dust and prevent the escape of oil. *The Clarage Bearing is, therefore, dust-proof and oil-tight.*

Ball Bearings

At a moderate extra cost the Type HV Fan can be equipped with ball bearings. When specified the well known, dependable SKF Balls and Races are furnished. They are mounted in special cases of Clarage design which have all the desirable aligning and adjustable features mentioned previously in connection with

Clarage Ring Oiling Bearing Cases. They are of liberal size, dust-proof and oil-tight.

Oiling Device

Whenever the HV Fan is furnished with a bearing in the inlet an oiling device as shown is furnished as standard equipment. This device permits the bearing to be filled to the proper level from an accessible position outside the duct work or heater connection.

CLARAGE OILING DEVICE

The large oil cup enables the oil level to be quickly determined at all times, eliminating any excuse for the bearing running dry. The top of the oil cup is adjusted to the proper level—no oil gauge is necessary, but where specified a standard sight gauge will be furnished at a small additional cost. A drain plug is located just below the filling cup to facilitate draining and washing out of the bearing.

This device is also furnished as standard equipment for the bearing on the drive side of the fan in sizes 3½ and larger, pulley driven, as otherwise the pulley would interfere with the ease of oiling this bearing.

Bearing Supports

Bearing supports on the Type HV Fan, sizes No. 3 and smaller, are an integral part of the cast iron side plates. On the larger sizes, heavy steel plate supports, riveted to the housing side bracing and anchored to the foundation, give equally rigid support to the bearings. *All bearing supports extend to the floor line*, a structural feature worthy of particular attention and offered as standard equipment on Clarage Fans.

Set screws at the sides of the bearing pads, together with height adjusting screws in the base of the bearings, make possible as ready alignment of the bearings and shaft as would adjustable sole plates; through bolts make the adjustment permanent and hold the bearing securely to the seat. True shaft alignment is thus readily made and easily maintained—very important where direct connected drives are used.

Drives for Type HV Fan—Sizes 1½ to 9

Pulley Driven

THE pulley driven HV Fan is extensively used in public building work. It is particularly adaptable where variable or unknown requirements are encountered, as the fan speed may be altered by a change in pulley size. Belt drive also makes possible a higher motor speed than if direct connected, with a resultant lower first cost for motors. Where space conditions would necessitate short pulley centers, Texrope, chain or other approved short center drives may be used.

Direct Motor Driven

The Type HV Fan when direct connected to an electric motor forms a compact unit and is desirable where space is limited. The motor is either mounted on a heavy structural steel pedestal connected to the fan housing or cast iron side plate, or is mounted on a suitable separate pedestal of concrete built by the contractor or customer. In sizes larger than size 2, at least one fan bearing is furnished, and the motor is connected to the fan by either a solid or flexible coupling as the arrangement requires.

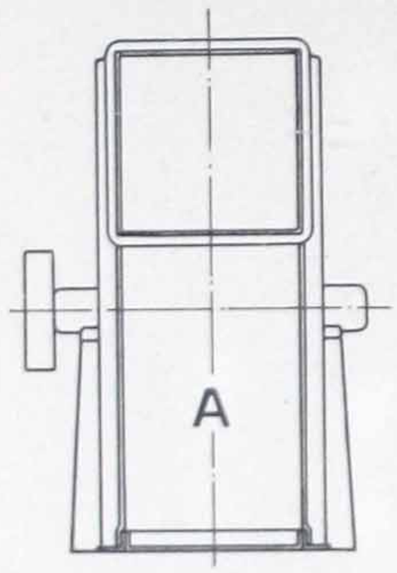
Engine Driven

The Type HV Fan direct connected to the Clarage Vertical Steam Engine forms an economical and dependable steam driven unit. Engine drive may be used with steam pressures as low as 25 to 40 pounds, and since the exhaust steam from the engine can be used in the heater stacks without loss of heating value, the cost of operating the fan is negligible. The modern Clarage Engine operates as simply and with as little attention as does the electric motor.

Standard Arrangements for Type HV Fan

TO MEET varying installation conditions the Type HV Fan is furnished in nine Standard Arrangements as shown on the next page. For belt drive it is built single or double width, in Arrangement A; single width in Arrangement B sizes 3 and smaller; single width in Arrangement F sizes 3½ and larger; and as double fan in Arrangements B or F. For direct connection the motor or engine mounted on an integral steel pedestal, the fan is built single width in Arrangements E, G, H and I; double width in Arrangement G; or as double fan in Arrangements E and I. For direct connection, engine or motor mounted independently, the fan is furnished single width in Arrangements C, D, or F, or double width in Arrangements C. ⅞ housed fans, built *only* in sizes 3½ and larger, are furnished single width in Arrangements A, C, D, and F, and double width in Arrangements A and C.

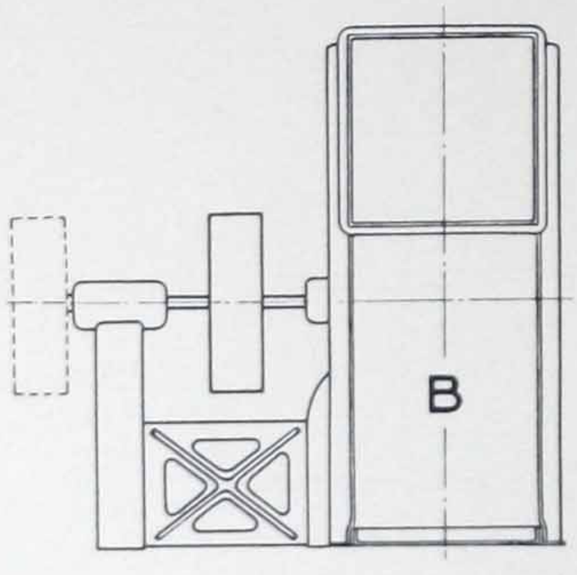
Showing Standard Arrangements for Type HV Fan— Sizes 1½ to 9



ARRANGEMENT A

Furnished with housing, wheel, shaft, two bearings and pulley.

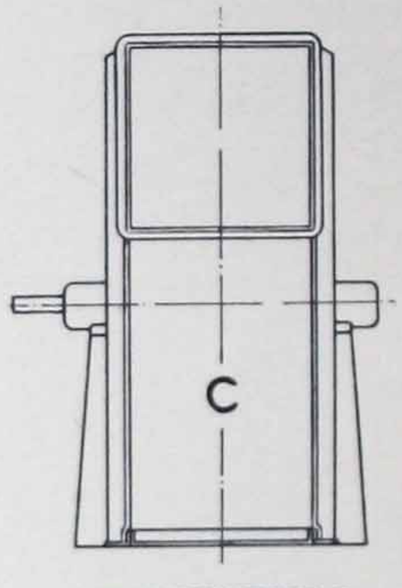
For Belt Drive.



ARRANGEMENT B

Furnished with housing, wheel, shaft, two bearings on cast iron support and pulley. (Built only up to and including size 3.)

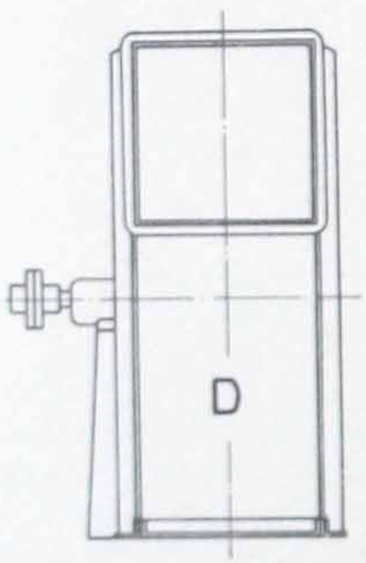
For Belt Drive.



ARRANGEMENT C

Furnished with housing, wheel, shaft and two bearings.

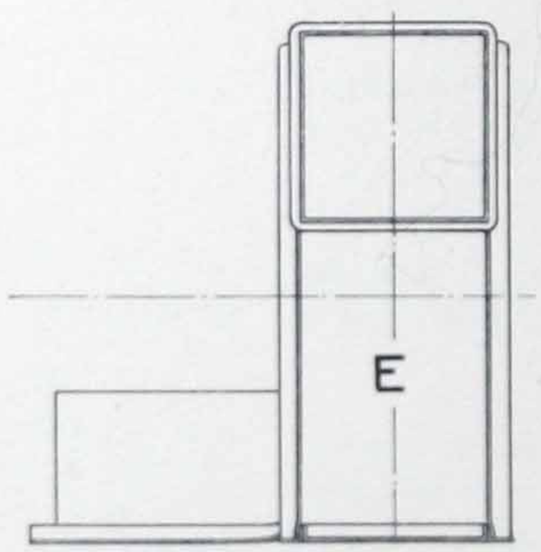
For Direct Connection, Texrope, Chain or other Approved Short Center Drive. Coupling, Special Pulley or Driven Pinion Extra.



ARRANGEMENT D

Furnished with housing, wheel, shaft, one bearing and solid coupling.

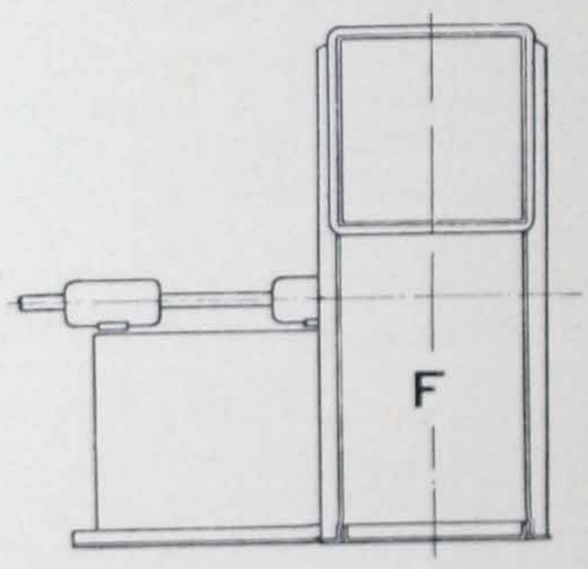
For Direct Drive.



ARRANGEMENT E

Furnished with housing, wheel, and structural steel pedestal for motor. (Built only up to and including size 2½.)

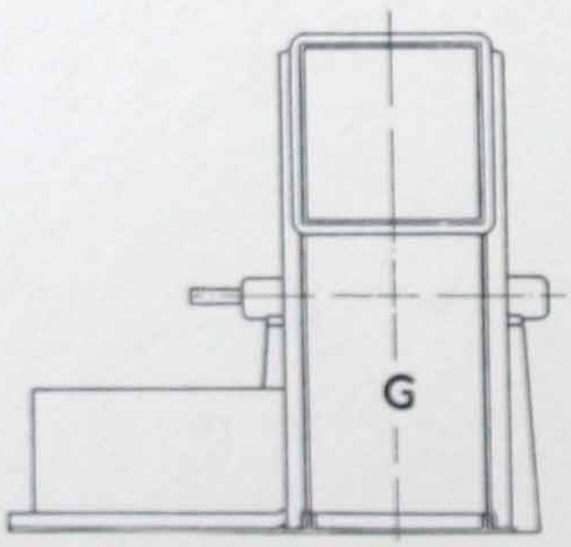
For Direct Drive with fan wheel mounted on extended motor shaft.



ARRANGEMENT F

Furnished with housing, wheel, shaft, and two bearings mounted on structural steel pedestal. (Built size 3½ and larger.)

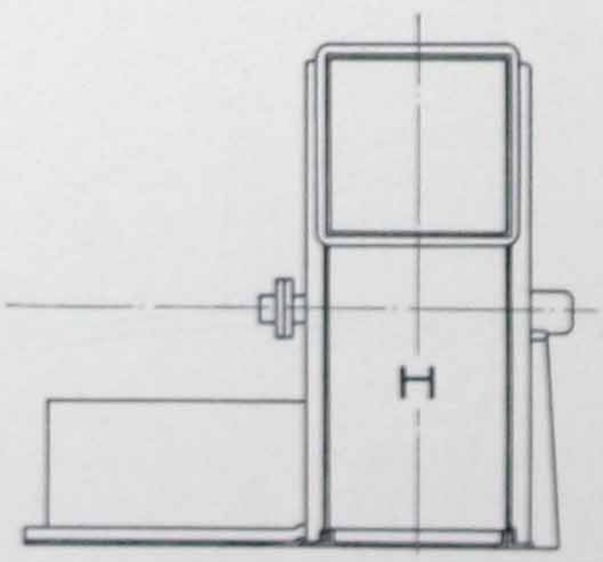
For Belt or Approved Short Center Drive, and Direct Connection. Pulley, Driven Pinion or Coupling extra.



ARRANGEMENT G

Furnished with housing, wheel, shaft, two bearings and structural steel pedestal for driver.

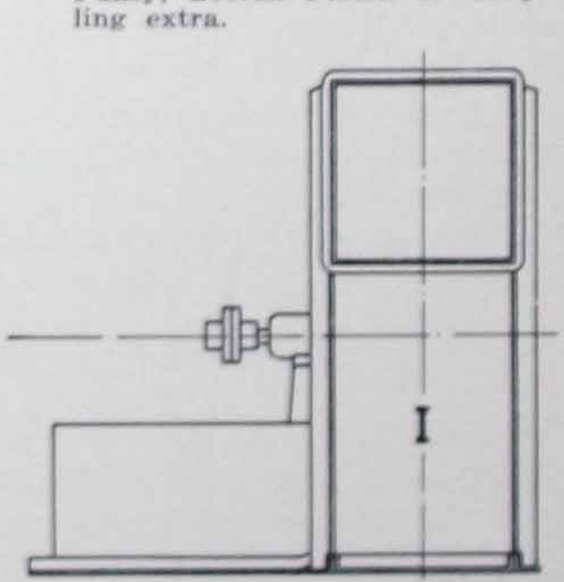
For Direct Drive. Coupling extra.



ARRANGEMENT H

Furnished with housing, wheel, shaft, one bearing, solid coupling and structural steel pedestal for driver.

For Direct Drive.



ARRANGEMENT I

Furnished with housing, wheel, shaft, one bearing, solid coupling and structural steel pedestal for driver.

For Direct Drive.

TYPE HV FANS
77% EFFICIENT

General Data and Weights for Type HV Fan— Sizes 1½ to 9

Single Width Fan — Arrangements A, B, and F

Size of Fan	Size of Outlet	Outside Diam. of Inlet	Extreme Dimensions for Full Housed Top Horizontal Discharge Fan				Wheel		Pulley		Bearing Diam.		Weight in Pounds	
			Height	Length	Width Arr. A	Width Arr. B and F	Diam.	Full Width	Diam.	Width	Arr. A	Arr. B and F	Arr. A	Arr. B and F
1½	14 3/16 x 19 1/16	20¼	40½	30¾	26¾	36½	19½	9¼	8	4	1 3/16	1 3/16	340	400
1¾	17 5/16 x 22¼	23¾	46¾	35	30	42	22¾	10¾	10	4	1 5/16	1 5/16	440	500
2	19 11/16 x 25¼	27	53	39	33¾	45	26	12¼	14	5	1 7/16	1 7/16	600	660
2¼	22⅛ x 28⅝	30⅝	59¾	43½	37½	50¾	29¼	13¾	16	5	1 11/16	1 11/16	730	825
2½	24 9/16 x 31¾	34	65¾	47¾	40½	53¾	32½	15¼	18	5	1 11/16	1 11/16	900	1100
3	29 7/16 x 38⅛	40¾	78¾	55½	45½	62¼	39	18¼	22	6	1 15/16	1 15/16	1230	1625
3½	34½ x 44½	47½	79¼	65½	57¾	72	45½	21⅜	28	6	2 3/16	2 3/16	1700	1750
4	39⅜ x 50¾	54½	90½	74½	64½	77¾	52	24⅜	36	7	2 7/16	2 7/16	2150	2225
4½	44¼ x 57⅛	61	101½	83¼	70½	82½	58½	27⅜	42	7	2 11/16	2 11/16	2650	2750
5	49⅛ x 63½	68	112¾	92¼	78	96¼	65	30⅜	48	8	2 15/16	2 15/16	3200	3350
5½	54⅛ x 70	75	124¼	101½	83½	99½	71½	33⅜	54	8	3 3/16	3 3/16	3750	3975
6	59 x 75¼	81½	134	110½	92½	112¼	78	36⅜	62	10	3 11/16	3 11/16	4270	4800
6½	63⅞ x 82½	88½	146¾	119½	98¼	119¼	84½	39⅜	68	10	3 15/16	3 15/16	5350	7200
7	68¾ x 89	95	157¾	128½	105	130¼	91	42½	74	12	3 15/16	4 7/16	7500	9500
7½	73⅝ x 95½	102	168¾	137¼	111½	136½	97½	45½	80	12	4 7/16	4 15/16	8410	10400
8	78½ x 101½	109	179¼	146½	118¼	148	104	48½	86	14	4 7/16	4 15/16	10440	12600
8½	83½ x 108	116	192¼	155½	127¼	166	110½	51½	92	16	4 15/16	5 7/16	12500	14800
9	88⅜ x 114½	122	203	164¼	134	180	117	54½	98	18	4 15/16	5 7/16	14700	17000

Note: Fans built in Arrangement B up to and including size 3; in the larger sizes in Arrangement F instead of B.

Double Width Fan — Arrangement A

Size of Fan	Size of Outlet	Outside Diam. of Inlet	Extreme Dimensions for Full Housed Top Horizontal Discharge Fan			One Wheel		Pulley		Bear. Diam.	Weight in Pounds
			Height	Length	Width	Diam.	Full Width	Diam.	Width		
1½	29 7/16 x 19 1/16	20¼	40½	30¾	42¼	19½	9¼	8	5	1 3/16	490
1¾	34⅜ x 22¼	23¾	46¾	35	47¼	22¾	10¾	10	5	1 5/16	610
2	34 3/16 x 25¼	27	53	39	53	26	12¼	14	6	1 7/16	760
2¼	44 1/16 x 28⅝	30⅝	59¾	43½	58¾	29¼	13¾	16	6	1 11/16	925
2½	48 15/16 x 31¾	34	65¾	47¾	65½	32½	15¼	18	7	1 11/16	1125
3	58 11/16 x 38⅛	40¾	78¾	55½	76¾	39	18¼	22	8	1 15/16	1700
3½	68⅝ x 44½	47½	79¼	65½	94¾	45½	21⅜	28	8	2 3/16	2500
4	78⅜ x 50¾	54½	90½	74½	107¼	52	24⅜	36	10	2 7/16	2425
4½	88⅛ x 57⅛	61	101½	83¼	118	58½	27⅜	42	10	2 15/16	4450
5	97⅞ x 63½	68	112¾	92¼	129¾	65	30⅜	48	12	3 3/16	5550
5½	107¾ x 70	75	124¼	101½	141¾	71½	33⅜	54	12	3 7/16	6740
6	117½ x 75¼	81½	134	110½	154	78	36⅜	62	14	3 15/16	7950
6½	127¼ x 82½	88½	146¾	119½	167	84½	39⅜	68	10	4 7/16	9100
7	137 x 89	95	157¾	128½	177	91	42½	74	18	4 7/16	11700
7½	146¾ x 95½	102	168¾	137¼	191¾	97½	45½	80	20	4 15/16	12800
8	156½ x 101½	109	179¼	146½	204½	104	48½	86	22	5 7/16	15440
8½	166⅜ x 108	116	192¼	155½	219¼	110½	51½	92	24	5 7/16	18700
9	176⅛ x 114½	122	203	164¼	235¼	117	54½	98	26	6 7/16	22000

Note:—All Dimensions given in both tables are in inches.

Standard Specifications on Type HV Fan, Sizes 1½ and Larger, for Use of Architect and Engineer

1.—Furnish and erect where shown on plans a No. _____ Clarage Type HV Multiblade Fan (single or double) _____ _____inlet; (single or double) _____ width, having a capacity of _____cubic feet of air per minute against a resistance (static pressure) of _____inches water gauge. This fan shall operate at approximately _____ R. P. M., with a velocity through the fan outlet not to exceed _____feet per minute and a maximum horsepower not greater than _____.

2.—The housing shall be built of ____ gauge steel plate (or cast iron) rigidly braced with _____angle irons (or cast iron side plates) secured in an approved manner.

Tables of gauges and bracing depending upon size.

Size of Fan	*Gauge of Housing*	*Method of Bracing*
1½ to 3	No. 14	Cast iron side plates
3½	No. 13	2″x3″x¼″ angles
4 to 7	No. 12	2″x3″x¼″ or 2½″x3½″x¼″ angles
6½ to 8	No. 11	2½″x3½″x¼″ or 3″x4″x5/16″ angles
8½ and larger	No. 11	3″x5″x⅜″ angles

3.—The wheel shall consist of a suitable cast iron hub and T-iron spider centrally located in the wheel, and a series of blades curved forward in the direction of rotation and riveted to annular steel plate rings or side rims. Wheels 45½ inches and larger shall be braced by 16 tie rods bolted from spider arms to rims.

They shall be accurately balanced and shall run without noise or vibration.

4.—The bearing shall consist of two distinct parts, the inner babbitted sleeves and the outer case. The inner sleeves shall be split and easily removed or replaced without disturbing the shaft. At each end of the outer case felt washers shall be placed to prevent oil from being drawn out or the dirt from getting in. Lubrication shall be obtained by two oil rings. The bearing shall be securely bolted to a support which extends to the floor line and shall be self-aligning and self-adjusting in a vertical and horizontal plane.

There shall be provided a suitable oiling device so that the bearing in the inlet may be oiled outside of the air flow.

5.—The shaft shall be of open hearth steel, key seated, ground and polished to exact diameter.

Performance Tables, Pages 20-37

THE Performance Tables are computed from tests conducted strictly in accordance with the Standard Test Code. They are guaranteed by the Clarage Company for standard conditions—air at 70 degrees Fahrenheit and at barometric pressure of 29.92 inches.

The horse power ratings given are net. In determining the size of motor or engine required an allowance should be made to safeguard against the possibility of overloading the driver. It should also be noted that even at a constant speed it is possible to deliver a much larger volume, when the pressure against which the fan operates is less than estimated, and that under such conditions the power requirement is increased.

The pressures which the fan must maintain depend upon the resistance offered to the flow of the air by the piping system, heater coil, air washer, etc.

For Typical Installations figure as follows for static pressures:

Public Buildings:

Ventilation only, 3/8" to 1/2".
Heating and Ventilating, 1/2" to 1".
Heating and Ventilating with Air Washers, 3/4" to 1 1/4".

Factories or Similar Buildings:

Heating, 3/4" to 1 1/2", Average 1 1/4".
Heating and Ventilating with Air Washers, 1 1/4" to 2".

The double width, double inlet HV Fan delivers twice the volume of air at the same speed and same pressure as does a single width, single inlet HV Fan of corresponding size, taking twice the brake horse power to drive. When figuring double width fans always use the Performance Tables given for single width, single inlet fans. Note example which follows.

Example:

No. 3 1/2 Single Width, Single Inlet HV Fan (see Table top of page 26.)
Volume—15,825 C. F. M.
Pressure—1-inch S. P.
Speed—233 R. P. M.
Brake Horse Power—3.80 B. H. P.

No. 3 1/2 Double Width, Double Inlet HV Fan.

Volume—
15,825 C.F.M. × 2 = 31,650 C.F.M.
Pressure—1-inch S. P.
Speed—233 R. P. M.
Brake Horse Power—
3.80 B.H.P. × 2 = 7.60 B.H.P.

Dimension Charts, Pages 38-46

THE Dimension Charts furnish detailed information for Clarage Type HV Fans in such arrangements and for such directions of discharge as are most commonly used in ventilating and air conditioning work. These dimensions which are necessary and essential to the planning and the laying out of a fan system have been included. While the dimensions given are sufficiently accurate for all preliminary work, they should not be used for construction purposes. At the time an order is received certified drawings will be furnished.

Clarage Engineering Service

IF THE information contained in this Reference Book does not solve your problem, ask for the co-operation of a Clarage engineer. With Sales Engineering Offices in all principal cities, the Clarage Company is prepared to give you prompt, authoritative service. Without obligation, a Clarage engineer will submit a complete recommendation and cost estimate covering equipment to meet your requirements.

No. 1½ Type HV Fan, Single Width, Single Inlet

Volume C. F. M.	Outlet Velocity Feet per Min.	¼" S. P.		⅜" S. P.		½" S. P.		⅝" S. P.		¾" S. P.		⅞" S. P.		1" S. P.		1¼" S. P.		1½" S. P.		1¾" S. P.		2" S. P.		2½" S. P.		3" S. P.	
		R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.
1,935	1000	**302**	**.15**	**345**	**.19**																						
2,129	1100	314	.18	355	.24	**392**	**.29**	**433**	**.33**	477	.38																
2,322	1200	327	.22	368	.28	402	.31	441	.37	479	.43	**510**	**.47**	549	.55												
2,516	1300	341	.27	378	.31	412	.36	448	.41	484	.48	516	.53	**549**	**.59**	614	.74										
2,709	1400	358	.31	392	.35	426	.40	451	.46	490	.54	520	.58	549	.66	614	.80	676	.93								
2,903	1500	372	.36	407	.41	438	.47	467	.53	500	.58	526	.64	557	.72	**614**	**.86**	676	1.02	731	1.21						
3,096	1600	388	.41	422	.49	451	.54	480	.59	510	.66	535	.72	559	.78	618	.93	**676**	**1.13**	726	1.28	780	1.46				
3,289	1700	407	.50	439	.55	465	.60	490	.66	520	.74	543	.80	569	.87	618	1.01	676	1.22	**726**	**1.36**	775	1.53	868	1.90		
3,482	1800	425	.57	457	.63	480	.68	503	.75	530	.83	555	.91	579	.97	628	1.13	683	1.30	726	1.46	**775**	**1.65**	864	2.03	955	2.48
3,677	1900			471	.72	496	.78	518	.85	545	.92	567	.99	594	1.09	634	1.22	690	1.42	735	1.55	775	1.73	864	2.15	951	2.60
3,869	2000			485	.81	510	.87	531	.95	559	1.02	584	1.11	603	1.19	647	1.32	700	1.51	740	1.69	780	1.86	**864**	**2.29**	951	2.71
4,256	2200					544	1.12	564	1.17	588	1.26	608	1.32	628	1.42	668	1.55	716	1.78	755	1.98	790	2.17	870	2.58	**951**	**3.00**
4,643	2400					578	1.36	598	1.44	623	1.53	638	1.60	657	1.71	691	1.88	735	2.09	770	2.29	804	2.48	883	2.91	955	3.37
5,030	2600							628	1.75	654	1.88	667	1.94	683	2.04	720	2.23	759	2.46	790	2.62	824	2.83	895	3.29	965	3.74
5,417	2800									681	2.27	696	2.33	715	2.42	750	2.62	785	2.85	814	3.04	848	3.26	913	3.68	977	4.17
5,804	3000											725	2.71	745	2.85	780	3.10	810	3.29	839	3.49	873	3.72	932	4.17	995	4.69
6,191	3200											760	3.20	785	3.39	814	3.58	844	3.78	868	3.97	902	4.27	951	4.70	1010	5.23
6,578	3400													819	3.87	850	4.18	876	4.42	902	4.59	932	4.84	980	5.29	1034	5.90

No. 1½ Type HV Fan, Single Width, Double Inlet

Volume C. F. M.	Outlet Velocity Feet per Min.	¼" S. P.		⅜" S. P.		½" S. P.		⅝" S. P.		¾" S. P.		⅞" S. P.		1" S. P.		1¼" S. P.		1½" S. P.		1¾" S. P.		2" S. P.		2½" S. P.		3" S. P.	
		R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.
1,935	1000	**282**	**.14**	**330**	**.18**	**372**	**.23**	**422**	**.28**	461	.33	504	.37														
2,129	1100	292	.16	335	.22	377	.27	422	.31	**461**	**.36**	500	.40	538	.47												
2,322	1200	304	.20	343	.25	382	.30	422	.35	461	.39	**500**	**.45**	533	.51	603	.62										
2,516	1300	318	.25	353	.29	388	.35	426	.39	461	.44	500	.50	**533**	**.55**	598	.67										
2,709	1400	329	.29	365	.34	397	.39	432	.44	465	.49	500	.55	533	.60	**594**	**.73**	653	.79								
2,903	1500	343	.34	377	.39	407	.43	441	.49	471	.54	504	.60	533	.66	594	.79	652	.92	706	1.08						
3,096	1600	353	.39	388	.44	421	.49	451	.55	480	.60	510	.67	539	.73	594	.85	**650**	**.99**	700	1.15	758	1.31				
3,289	1700	373	.44	403	.50	431	.56	461	.61	486	.68	515	.74	539	.81	594	.93	650	1.08	**700**	**1.21**	755	1.40				
3,482	1800	386	.49	416	.56	445	.63	471	.68	495	.75	523	.83	550	.89	598	1.02	650	1.17	700	1.31	**750**	**1.48**	843	1.83		
3,677	1900	403	.56	427	.64	457	.72	482	.77	505	.84	531	.91	559	.99	603	1.12	654	1.26	700	1.41	750	1.59	838	1.94	935	**2.36**
3,869	2000			441	.70	471	.79	490	.85	515	.92	543	.99	565	1.09	610	1.19	657	1.36	700	1.51	750	1.71	**837**	**2.07**	927	2.48
4,256	2200			475	.91	500	.97	514	1.05	543	1.13	562	1.21	585	1.30	625	1.45	668	1.61	710	1.77	754	1.94	837	2.32	**917**	**2.71**
4,643	2400					530	1.20	544	1.28	569	1.36	589	1.48	605	1.55	643	1.73	682	1.88	720	2.09	761	2.27	837	2.62	917	3.04
5,030	2600							573	1.55	594	1.67	614	1.75	627	1.81	667	2.01	705	2.21	736	2.38	774	2.62	848	3.00	917	3.43
5,417	2800									623	2.00	641	2.09	652	2.17	691	2.37	725	2.58	754	2.73	792	2.97	859	3.39	925	3.82
5,804	3000											667	2.42	680	2.52	720	2.77	750	2.96	780	3.14	809	3.39	873	3.84	937	4.30
6,191	3200													707	2.91	745	3.20	775	3.41	804	3.64	833	3.87	491	4.34	950	4.80
6,578	3400													741	3.39	773	3.68	800	3.88	824	4.17	853	4.46	908	4.88	965	5.33

NOTE—The black faced type indicates the most efficient point of operation for each pressure.

Values Guaranteed for Standard Air: Temperature, 68°F.; Pressure, 29.92 inches; Weight, .07488 lbs. per cu. ft.

No. 1¾ Type HV Fan, Single Width, Single Inlet

Volume C. F. M.	Outlet Velocity Feet per Min.	¼" S. P.		⅜" S. P.		½" S. P.		⅝" S. P.		¾" S. P.		⅞" S. P.		1" S. P.		1¼" S. P.		1½" S. P.		1¾" S. P.		2" S. P.		2½" S. P.		3" S. P.	
		R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H .P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.
2,630	1000	**259**	**.20**	**296**	**.25**																						
2,893	1100	269	.25	304	.32	**336**	**.39**	**372**	**.45**	**408**	**.52**																
3,156	1200	281	.29	317	.37	345	.43	378	.50	410	.58	**437**	**.64**	471	.74												
3,419	1300	293	.36	324	.43	353	.49	382	.56	415	.65	442	.72	**471**	**.79**	527	1.00										
3,682	1400	307	.43	336	.48	365	.54	387	.62	420	.73	446	.79	471	.90	527	1.08	580	1.27								
3,945	1500	319	.49	349	.56	375	.64	400	.71	428	.79	451	.87	478	.98	**527**	**1.16**	580	1.37	627	1.63						
4,208	1600	333	.56	362	.66	387	.73	412	.79	437	.90	459	.98	480	1.06	530	1.26	**580**	**1.55**	622	1.74	668	1.98				
4,471	1700	349	.68	377	.74	398	.82	420	.90	446	1.00	466	1.08	487	1.19	530	1.37	580	1.66	**622**	**1.84**	665	2.08	744	2.58		
4,734	1800	365	.77	391	.86	412	.93	432	1.02	454	1.12	476	1.24	497	1.32	538	1.53	585	1.77	622	1.98	**665**	**2.24**	740	2.77	820	3.37
4,997	1900			403	.98	424	1.06	444	1.15	467	1.25	487	1.34	508	1.48	543	1.66	592	1.92	631	2.11	665	2.34	740	2.93	816	3.53
5,260	2000			416	1.10	437	1.19	457	1.29	479	1.38	500	1.50	517	1.61	554	1.79	600	2.05	634	**2.29**	668	2.53	**740**	**3.11**	816	3.69
5,786	2200					467	1.51	483	1.58	504	1.71	521	1.79	538	1.92	571	2.11	614	2.42	647	**2.69**	677	2.95	745	3.50	**816**	**4.08**
6,312	2400					496	1.84	513	1.95	534	2.08	547	2.17	564	2.32	594	2.55	631	2.85	660	3.11	690	3.37	757	3.95	818	4.58
6,838	2600							538	2.37	560	2.55	572	2.63	585	2.77	618	3.03	651	3.35	677	3.55	707	3.84	766	4.48	827	5.08
7,364	2800									584	3.08	597	3.16	614	3.29	644	3.56	672	3.87	698	4.13	727	4.43	782	5.00	837	5.67
7,890	3000											622	3.69	639	3.87	669	4.22	695	4.48	719	4.74	748	5.06	799	5.67	854	6.38
8,416	3200											651	4.35	672	4.62	698	4.88	723	5.13	744	5.40	773	5.80	815	6.40	866	7.11
8,932	3400													702	5.27	728	5.68	750	6.00	773	6.25	798	6.58	841	7.20	887	8.05

No. 1¾ Type HV Fan, Single Width, Double Inlet

Volume C. F. M.	Outlet Velocity Feet per Min.	¼" S. P.		⅜" S. P.		½" S. P.		⅝" S. P.		¾" S. P.		⅞" S. P.		1" S. P.		1¼" S. P.		1½" S. P.		1¾" S. P.		2" S. P.		2½" S. P.		3" S. P.	
		R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.
2,630	1000	**242**	**.20**	**282**	**.24**	**319**	**.31**	**361**	**.37**	395	.45	433	.50														
2,893	1100	250	.22	288	.29	324	.36	361	.43	**395**	**.49**	428	.54	461	.64												
3,156	1200	261	.27	294	.33	327	.41	361	.48	395	.53	**428**	**.61**	457	.69	517	.85										
3,419	1300	272	.33	303	.40	333	.47	365	.53	395	.60	428	.67	**457**	**.75**	513	.91										
3,682	1400	282	.40	312	.46	340	.53	370	.60	398	.66	428	.74	457	.82	**509**	**.99**	560	1.17								
3,945	1500	294	.46	323	.53	349	.58	378	.66	403	.73	433	.82	457	.90	509	1.07	558	1.25	605	1.46						
4,208	1600	303	.53	333	.60	361	.66	387	.74	412	.82	437	.91	462	.99	509	1.16	**556**	**1.35**	600	1.55	650	1.78				
4,471	1700	319	.60	345	.67	370	.75	395	.83	416	.92	442	1.00	462	1.09	509	1.27	556	1.46	**600**	**1.65**	647	1.90				
4,734	1800	331	.66	356	.75	382	.86	403	.92	425	1.02	449	1.12	471	1.21	513	1.38	556	1.58	600	1.78	**642**	**2.01**	722	2.48		
4,997	1900	345	.75	365	.87	392	.98	413	1.04	433	1.13	455	1.24	479	1.34	517	1.51	560	1.71	600	1.91	642	2.16	720	2.63	800	3.21
5,260	2000			378	.95	403	1.07	420	1.16	442	1.25	465	1.34	484	1.48	523	1.62	563	1.84	600	2.05	642	2.32	**718**	**2.81**	794	3.37
5,786	2200			390	1.24	429	1.32	441	1.42	465	1.54	482	1.65	501	1.76	537	1.96	573	2.18	610	2.41	642	2.63	718	3.16	**785**	**3.68**
6,312	2400					454	1.63	467	1.74	488	1.84	504	2.00	518	2.11	552	2.34	585	2.56	618	2.84	653	3.08	718	3.55	785	4.13
6,838	2600							491	2.11	510	2.26	526	2.37	538	2.45	571	2.74	605	3.00	632	3.24	664	3.55	727	4.08	788	4.66
7,364	2800									534	2.71	550	2.84	560	2.95	593	3.21	622	3.50	648	3.71	679	4.03	735	4.60	794	5.18
7,890	3000											571	3.29	584	3.42	617	3.76	642	4.03	669	4.27	693	4.60	748	5.20	804	5.85
8,416	3200													605	3.95	638	4.34	664	4.63	690	4.95	715	5.27	765	5.89	815	6.52
8,932	3400													635	4.60	664	5.00	685	5.27	706	5.66	731	6.05	778	6.63	828	7.24

NOTE—The black faced type indicates the most efficient point of operation for each pressure.

Values Guaranteed for Standard Air: Temperature, 68°F.; Pressure, 29.92 inches; Weight, .07488 lbs. per cu. ft.

No. 2 Type HV Fan, Single Width, Single Inlet

Volume C. F. M.	Outlet Velocity Feet per Min.	¼" S. P.		⅜" S. P.		½" S. P.		⅝" S. P.		¾" S. P.		⅞" S. P.		1" S. P.		1¼" S. P.		1½" S. P.		1¾" S. P.		2" S. P.		2½" S. P.		3" S. P.	
		R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.
3,440	1000	**226**	**.26**	**258**	**.33**																						
3,784	1100	235	.32	266	.42	**294**	**.50**	**324**	**.59**	**356**	**.68**																
4,128	1200	245	.38	275	.49	301	.56	330	.66	358	.76	**382**	**.83**	411	.97												
4,472	1300	255	.47	283	.56	308	.64	334	.73	363	.85	386	.94	**411**	**1.04**	460	1.31										
4,816	1400	268	.56	294	.63	319	.71	338	.82	367	.95	390	1.04	411	1.18	460	1.42	507	1.66								
5,160	1500	279	.64	305	.73	325	.83	350	.94	374	1.04	393	1.14	417	1.28	**460**	**1.52**	507	1.80	547	2.14						
5,504	1600	291	.73	316	.87	338	.95	360	1.04	382	1.18	400	1.28	418	1.38	463	1.66	**507**	**2.00**	544	2.28	584	2.59				
5,848	1700	304	.88	329	.97	348	1.07	367	1.18	389	1.31	407	1.42	426	1.56	463	1.80	507	2.18	**544**	**2.42**	580	2.73	650	3.38		
6,192	1800	318	1.00	341	1.12	360	1.21	378	1.33	397	1.47	414	1.62	433	1.73	470	2.00	512	2.31	544	2.59	**580**	**2.93**	647	3.62	717	4.35
6,536	1900			353	1.28	371	1.38	388	1.50	408	1.64	424	1.76	444	1.93	475	2.18	517	2.52	551	2.76	580	3.07	647	3.83	713	4.63
6,880	2000			363	1.44	382	1.55	398	1.69	419	1.81	437	1.97	452	2.10	485	2.35	524	2.69	554	3.00	584	3.31	**647**	**4.08**	713	4.83
7,568	2200					408	1.99	423	2.07	441	2.24	455	2.35	470	2.52	499	2.76	536	3.18	565	3.52	591	3.87	650	4.59	**711**	**5.35**
8,256	2400					433	2.42	448	2.55	467	2.73	477	2.85	492	3.04	518	3.35	551	3.73	578	4.08	603	4.42	661	5.18	715	6.01
8,944	2600							470	3.11	489	3.35	499	3.45	511	3.62	539	3.97	569	4.38	591	4.66	617	5.04	670	5.87	724	6.66
9,632	2800									511	4.05	521	4.15	536	4.32	562	4.67	588	5.08	610	5.42	635	5.81	683	6.56	731	7.42
10,320	3000											544	4.83	558	5.08	585	5.53	607	5.87	628	6.21	654	6.63	698	7.42	745	8.35
11,008	3200											568	5.70	588	6.04	610	6.39	632	6.73	650	7.10	676	7.60	713	8.40	757	9.33
11,696	3400													614	6.90	636	7.43	656	7.87	676	8.18	698	8.63	735	9.42	775	10.6

No. 2 Type HV Fan, Single Width, Double Inlet

Volume C. F. M.	Outlet Velocity Feet per Min.	¼" S. P.		⅜" S. P.		½" S. P.		⅝" S. P.		¾" S. P.		⅞" S. P.		1" S. P.		1¼" S. P.		1½" S. P.		1¾" S. P.		2" S. P.		2½" S. P.		3" S. P.	
		R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.
3,440	1000	**212**	**.26**	**247**	**.31**	**279**	**.40**	**316**	**.49**	345	.59	377	.66														
3,784	1100	219	.28	251	.38	281	.47	316	.55	**345**	**.64**	377	.71	403	.83												
4,128	1200	228	.35	257	.43	286	.54	316	.62	345	.69	**377**	**.80**	400	.90	451	1.10										
4,472	1300	238	.43	265	.52	291	.62	319	.69	345	.78	377	.88	**400**	**.98**	448	1.19										
4,816	1400	247	.52	274	.61	298	.68	323	.78	348	.86	377	.97	400	1.07	**445**	**1.29**	490	1.53								
5,160	1500	257	.61	283	.69	305	.76	330	.86	352	.95	378	1.07	400	1.17	445	1.40	488	1.64	529	1.91						
5,504	1600	266	.69	291	.78	316	.86	338	.97	360	1.07	382	1.19	404	1.29	445	1.52	**487**	**1.76**	525	2.03	568	2.32				
5,848	1700	279	.78	302	.88	323	.98	345	1.09	363	1.21	386	1.31	404	1.43	445	1.65	487	1.91	**525**	**2.15**	566	2.48				
6,192	1800	289	.86	311	.98	334	1.12	353	1.21	371	1.33	392	1.47	412	1.58	448	1.81	487	2.07	525	2.32	**563**	**2.63**	632	3.25		
6,536	1900	301	.98	320	1.14	342	1.28	361	1.36	378	1.48	398	1.62	419	1.76	452	1.98	489	2.24	525	2.50	563	2.82	629	3.44	700	4.20
6,880	2000			330	1.24	353	1.40	367	1.52	386	1.64	407	1.76	423	1.93	457	2.12	492	2.41	525	2.69	563	3.03	**627**	**3.69**	695	4.40
7,568	2200			356	1.62	374	1.72	385	1.86	407	2.02	421	2.15	438	2.31	469	2.57	500	2.86	533	3.15	564	3.44	627	4.13	**688**	**4.82**
8,256	2400					397	2.14	408	2.27	426	2.41	440	2.62	452	2.75	483	3.06	511	3.34	540	3.72	570	4.03	627	4.65	688	5.40
8,944	2600							430	2.76	445	2.96	460	3.10	470	3.20	500	3.58	528	3.92	552	4.23	580	4.65	635	5.34	688	6.10
9,632	2800									467	3.54	480	3.72	488	3.85	518	4.20	544	4.58	565	4.85	595	5.37	645	6.03	694	6.80
10,320	3000											500	4.30	509	4.48	539	4.93	561	5.27	584	5.58	607	6.03	654	6.82	702	7.65
11,008	3200													529	5.17	558	5.68	580	6.06	603	6.48	625	6.90	669	7.72	713	8.55
11,696	3400													555	6.03	580	6.54	598	6.90	618	7.40	640	7.92	680	8.68	724	9.48

NOTE—The black faced type indicates the most efficient point of operation for each pressure.

Values Guaranteed for Standard Air: Temperature, 68°F.; Pressure, 29.92 inches; Weight, .07488 lbs. per cu. ft.

No. 2¼ Type HV Fan, Single Width, Single Inlet

Volume C. F. M.	Outlet Velocity Feet per Min.	¼" S. P.		⅜" S. P.		½" S. P.		⅝" S. P.		¾" S. P.		⅞" S. P.		1" S. P.		1¼" S. P.		1½" S. P.		1¾" S. P.		2" S. P.		2½" S. P.		3" S. P.	
		R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.
4,350	1000	**200**	**.33**	**229**	**.42**	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
4,785	1100	208	.40	236	.53	**260**	**.64**	**287**	**.74**	**315**	**.85**	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
5,220	1200	217	.48	244	.61	267	.70	293	.83	317	.96	**338**	**1.05**	364	1.22	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
5,655	1300	226	.59	250	.70	273	.81	296	.92	321	1.07	341	1.18	**364**	**1.31**	407	1.66	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
6,090	1400	237	.70	260	.79	282	.90	299	1.03	325	1.20	345	1.31	364	1.48	407	1.78	448	2.09	.....	.....	.....	.....	.....	.....	.....	.....
6,525	1500	247	.81	270	.92	289	1.05	310	1.18	332	1.31	349	1.44	369	1.61	**407**	**1.92**	448	2.27	485	2.70	.....	.....	.....	.....	.....	.....
6,960	1600	258	.92	280	1.09	299	1.20	319	1.31	338	1.48	354	1.61	371	1.74	410	2.09	**448**	**2.53**	481	2.88	518	3.27	.....	.....	.....	.....
7,395	1700	270	1.11	292	1.22	308	1.35	325	1.48	345	1.66	360	1.79	378	1.96	410	2.26	448	2.74	**481**	**3.05**	514	3.44	577	4.27	.....	.....
7,830	1800	283	1.26	302	1.42	319	1.53	334	1.68	351	1.85	368	2.05	384	2.18	417	2.53	453	2.92	481	3.26	**514**	**3.70**	573	4.57	635	5.58
8,265	1900	.....	.....	312	1.61	328	1.74	344	1.90	361	2.07	376	2.22	394	2.44	420	2.74	458	3.18	488	3.48	514	3.88	573	4.83	631	5.84
8,700	2000	.....	.....	322	1.81	338	1.96	352	2.13	371	2.29	387	2.48	400	2.66	430	2.96	464	3.40	490	3.79	518	4.19	**573**	**5.14**	631	6.10
9,570	2200	.....	.....	.....	.....	361	2.50	374	2.61	390	2.83	403	2.96	417	3.18	443	3.48	475	4.00	501	4.44	524	4.88	577	5.79	**630**	**6.75**
10,440	2400	.....	.....	.....	.....	384	3.05	397	3.22	413	3.44	423	3.59	437	3.83	459	4.23	488	4.70	511	5.14	534	5.58	586	6.53	634	7.57
11,310	2600	.....	.....	.....	.....	.....	.....	417	3.92	433	4.23	443	4.35	453	4.58	477	5.00	503	5.53	524	5.88	547	6.35	593	7.40	641	8.40
12,180	2800	.....	.....	.....	.....	.....	.....	.....	.....	453	5.10	462	5.23	475	5.45	497	5.88	520	6.40	540	6.84	563	7.32	605	8.27	648	9.35
13,050	3000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	482	6.10	490	6.40	504	5.97	537	7.40	557	7.84	579	8.36	618	9.35	660	10.6
13,920	3200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	504	7.18	521	7.62	540	8.05	559	8.50	576	8.93	599	9.58	631	10.6	670	11.8
14,790	3400	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	543	8.71	564	9.37	581	10.0	599	10.4	619	10.9	651	11.9	687	13.3

No. 2¼ Type HV Fan, Single Width, Double Inlet

Volume C. F. M.	Outlet Velocity Feet per Min.	¼" S. P.		⅜" S. P.		½" S. P.		⅝" S. P.		¾" S. P.		⅞" S. P.		1" S. P.		1¼" S. P.		1½" S. P.		1¾" S. P.		2" S. P.		2½" S. P.		3" S. P.	
		R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.
4,350	1000	**188**	**.32**	**219**	**.40**	**248**	**.50**	**280**	**.61**	306	.74	335	.83	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
4,785	1100	194	.35	223	.48	251	.59	280	.70	**306**	**.81**	332	.90	357	1.05	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
5,220	1200	202	.44	228	.55	254	.68	280	.79	306	.87	**332**	**1.00**	355	1.13	400	1.39	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
5,655	1300	211	.55	235	.66	258	.78	283	.87	306	.98	332	1.11	**355**	**1.24**	397	1.50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
6,090	1400	219	.66	242	.77	264	.87	287	.98	309	1.09	332	1.13	355	1.35	**394**	**1.63**	434	1.94	.....	.....	.....	.....	.....	.....	.....	.....
6,525	1500	228	.76	251	.87	270	.96	293	1.09	313	1.20	335	1.35	355	1.48	394	1.77	433	2.07	469	2.41	.....	.....	.....	.....	.....	.....
6,960	1600	235	.87	258	.98	280	1.05	300	1.22	319	1.35	339	1.50	358	1.63	394	1.92	**431**	**2.22**	465	2.57	504	2.94	.....	.....	.....	.....
7,395	1700	248	.98	267	1.11	287	1.24	306	1.37	322	1.52	343	1.66	358	1.81	394	2.09	431	2.41	**465**	**2.72**	502	3.13	.....	.....	.....	.....
7,830	1800	257	1.10	276	1.24	296	1.42	313	1.53	329	1.68	348	1.85	364	2.00	397	2.28	431	2.61	465	2.94	**498**	**3.33**	560	4.11	.....	.....
8,265	1900	267	1.24	284	1.44	304	1.61	321	1.72	335	1.87	353	2.05	371	2.22	400	2.50	433	2.83	465	3.15	498	3.57	558	4.35	621	5.31
8,700	2000	.....	.....	293	1.57	313	1.76	326	1.92	342	2.07	361	2.22	375	2.44	405	2.68	434	3.05	465	3.43	498	3.83	**555**	**4.66**	615	5.58
9,570	2200	.....	.....	316	2.05	332	2.18	342	2.35	361	2.55	374	2.72	388	2.92	415	3.24	443	3.61	473	3.98	501	4.35	555	5.22	**609**	**6.10**
10,440	2400	.....	.....	.....	.....	352	2.70	361	2.87	378	3.05	391	3.31	401	3.48	428	3.87	453	4.22	478	4.70	506	5.10	555	5.88	609	6.83
11,310	2600	.....	.....	.....	.....	.....	.....	381	3.48	395	3.74	408	3.92	417	4.05	443	4.52	469	4.97	490	5.35	515	5.88	564	6.75	610	7.70
12,180	2800	.....	.....	.....	.....	.....	.....	.....	.....	414	4.48	426	4.70	433	4.88	459	5.30	482	5.79	502	6.14	526	6.66	572	7.62	615	8.57
13,050	3000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	443	5.44	452	5.65	479	6.23	498	6.66	519	7.05	538	7.62	580	8.61	624	9.67
13,920	3200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	469	6.53	495	7.18	515	7.65	534	8.18	554	8.70	594	9.75	633	10.8
14,790	3400	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	492	7.61	515	8.27	531	8.70	547	9.37	567	10.00	603	11.0	643	12.0

NOTE—The black faced type indicates the most efficient point of operation for each pressure.

Values Guaranteed for Standard Air: Temperature, 68°F.; Pressure, 29.92 inches; Weight, .07488 lbs. per cu. ft.

No. 2½ Type HV Fan, Single Width, Single Inlet

Volume C. F. M.	Outlet Velocity Feet per Min.	¼" S. P.		⅜" S. P.		½" S. P.		⅝" S. P.		¾" S. P.		⅞" S. P.		1" S. P.		1¼" S. P.		1½" S. P.		1¾" S. P.		2" S. P.		2½" S. P.		3" S. P.	
		R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.
5,370	1000	**181**	**.41**	**207**	**.51**	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
5,907	1100	188	.50	213	.65	**236**	**.78**	**260**	**.92**	**286**	**1.05**	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
6,444	1200	197	.59	221	.76	242	.86	265	1.03	287	1.19	**306**	**1.29**	330	1.51	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
6,981	1300	205	.72	227	.86	247	1.00	268	1.13	291	1.32	309	1.45	**330**	**1.62**	368	2.05	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
7,518	1400	215	.86	236	.97	256	1.10	271	1.27	294	1.48	312	1.62	330	1.83	368	2.21	407	2.58	.....	.....	.....	.....	.....	.....	.....	.....
8,055	1500	224	1.00	245	1.13	262	1.29	280	1.45	300	1.62	316	1.78	335	1.99	**369**	**2.37**	407	2.80	437	3.34	.....	.....	.....	.....	.....	.....
8,592	1600	233	1.13	254	1.35	271	1.48	289	1.62	306	1.83	321	1.99	336	2.15	371	2.58	**407**	**3.12**	436	3.55	468	4.03	.....	.....	.....	.....
9,129	1700	245	1.37	264	1.51	279	1.67	295	1.83	312	2.05	326	2.23	342	2.42	371	2.80	407	3.39	**436**	**3.77**	465	4.25	521	5.28	.....	.....
9,666	1800	256	1.56	274	1.75	289	1.88	303	2.07	318	2.29	333	2.53	348	2.69	377	3.12	410	3.61	436	4.04	**465**	**4.58**	518	5.65	575	6.88
10,203	1900	.....	.....	283	1.99	297	2.15	311	2.34	327	2.56	340	2.75	356	3.01	380	3.39	415	3.93	436	4.31	465	4.79	518	5.98	571	7.21
10,740	2000	.....	.....	292	2.24	306	2.42	319	2.64	336	2.83	351	3.07	362	3.28	389	3.66	421	4.20	443	4.68	468	5.17	**518**	**6.35**	571	7.53
11,814	2200	.....	.....	.....	.....	327	3.10	339	3.23	354	3.50	365	3.66	377	3.93	400	4.81	430	4.95	454	5.50	475	6.02	518	7.15	**570**	**8.35**
12,888	2400	.....	.....	.....	.....	348	3.77	359	3.98	374	4.25	383	4.45	395	4.73	415	5.22	442	5.82	463	6.35	483	6.90	530	8.05	573	9.36
13,962	2600	.....	.....	.....	.....	.....	.....	377	4.85	392	5.23	400	5.37	410	5.65	432	6.18	456	6.85	474	7.27	495	7.85	537	9.15	580	10.4
15,036	2800	.....	.....	.....	.....	.....	.....	.....	.....	409	6.30	419	6.45	430	6.73	450	7.27	472	7.90	489	8.45	510	9.05	548	10.2	586	11.6
16,110	3000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	436	7.55	447	7.90	460	8.61	487	9.15	504	9.69	525	10.4	560	11.6	598	13.0
17,184	3200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	457	8.88	471	9.42	489	10.0	507	10.5	521	11.0	541	11.9	571	13.1	607	14.5
18,258	3400	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	492	10.8	510	11.6	527	12.3	541	12.8	554	13.5	589	14.7	621	16.4

No. 2½ Type HV Fan, Single Width, Double Inlet

Volume C. F. M.	Outlet Velocity Feet per Min.	¼" S. P.		⅜" S. P.		½" S. P.		⅝" S. P.		¾" S. P.		⅞" S. P.		1" S. P.		1¼" S. P.		1½" S. P.		1¾" S. P.		2" S. P.		2½" S. P.		3" S. P.	
		R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.
5,370	1000	**169**	**.40**	**198**	**.49**	**224**	**.62**	**253**	**.76**	276	.92	302	1.02	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
5,907	1100	175	.43	201	.60	226	.73	253	.86	**276**	**1.00**	300	1.10	322	1.29	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
6,444	1200	182	.54	206	.68	229	.84	253	.97	276	1.08	**300**	**1.24**	320	1.40	362	1.72	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
6,981	1300	191	.68	212	.81	233	.96	255	1.08	276	1.21	300	1.37	**320**	**1.53**	359	1.86	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
7,518	1400	198	.81	219	.94	238	1.07	259	1.21	279	1.37	300	1.51	320	1.67	**356**	**2.02**	392	2.39	.....	.....	.....	.....	.....	.....	.....	.....
8,055	1500	206	.94	226	1.08	246	1.19	265	1.37	282	1.48	302	1.67	320	1.83	356	2.18	391	2.55	424	2.98	.....	.....	.....	.....	.....	.....
8,592	1600	212	1.08	233	1.21	253	1.34	271	1.51	288	1.67	306	1.85	323	2.02	356	2.37	**390**	**2.74**	420	3.17	455	3.63	.....	.....	.....	.....
9,129	1700	224	1.21	241	1.37	259	1.53	276	1.69	291	1.88	310	2.04	323	2.23	356	2.58	390	2.98	**420**	**3.36**	453	3.87	.....	.....	.....	.....
9,666	1800	231	1.35	250	1.53	267	1.75	282	1.88	297	2.07	314	2.28	329	2.47	359	2.82	390	3.23	420	3.63	**449**	**4.11**	506	5.08	.....	.....
10,203	1900	241	1.53	256	1.77	274	1.99	289	2.12	303	2.31	319	2.52	335	2.74	362	3.09	392	3.49	420	3.90	449	4.40	504	5.37	561	6.56
10,740	2000	.....	.....	265	1.94	282	2.18	294	2.36	309	2.55	326	2.74	339	3.01	366	3.30	394	3.76	420	4.19	449	4.73	**502**	**5.75**	555	6.88
11,814	2200	.....	.....	285	2.53	300	2.69	309	2.90	326	3.14	338	3.36	351	3.60	376	4.00	402	4.46	428	4.92	452	5.37	502	6.45	**550**	**7.52**
12,888	2400	.....	.....	.....	.....	318	3.33	326	3.55	341	3.76	353	4.08	362	4.30	387	4.78	410	5.21	433	5.81	457	6.29	502	7.26	550	8.44
13,962	2600	.....	.....	.....	.....	.....	.....	344	4.30	356	4.62	368	4.83	376	5.00	400	5.60	424	6.13	443	6.62	465	7.26	509	8.33	551	9.52
15,036	2800	.....	.....	.....	.....	.....	.....	.....	.....	374	5.54	384	5.81	392	6.03	415	6.57	435	7.15	454	7.58	475	8.22	515	9.41	555	10.6
16,110	3000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	400	6.72	408	7.00	432	7.69	450	8.23	469	8.71	485	9.41	524	10.7	563	12.0
17,184	3200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	424	8.07	447	8.87	465	9.46	483	10.1	500	10.8	535	12.1	570	13.4
18,258	3400	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	444	9.41	465	10.2	480	10.8	494	11.6	512	12.4	545	13.6	580	14.8

NOTE—The black faced type indicates the most efficient point of operation for each pressure.

Values Guaranteed for Standard Air: Temperature, 68°F.; Pressure, 29.92 inches; Weight, .07488 lbs. per cu. ft.

No. 3 Type HV Fan, Single Width, Single Inlet

Volume C. F. M.	Outlet Velocity Feet per Min.	¼″ S. P.		⅜″ S. P.		½″ S. P.		⅝″ S. P.		¾″ S. P.		⅞″ S. P.		1″ S. P.		1¼″ S. P.		1½″ S. P.		1¾″ S. P.		2″ S. P.		2½″ S. P.		3″ S. P.	
		R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.
7,740	1000	**151**	**.58**	**173**	**.74**	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
8,514	1100	157	.72	178	.93	**196**	**1.13**	**217**	**1.32**	**238**	**1.51**	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
9,288	1200	164	.85	184	1.09	201	1.24	221	1.48	239	1.71	**255**	**1.86**	275	2.17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
10,062	1300	171	1.05	189	1.24	206	1.44	223	1.63	242	1.90	257	2.10	**275**	**2.33**	306	2.95	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
10,836	1400	179	1.24	196	1.40	213	1.59	226	1.82	245	2.13	260	2.33	275	2.64	306	3.14	338	3.72	.....	.....	.....	.....	.....	.....	.....	.....
11,610	1500	187	1.43	204	1.63	218	1.86	234	2.10	250	2.33	263	2.56	279	2.87	**307**	**3.41**	338	4.03	365	4.81	.....	.....	.....	.....	.....	.....
12,384	1600	195	1.63	211	1.94	226	2.14	240	2.33	255	2.64	267	2.87	280	3.10	309	3.72	**338**	**4.46**	365	5.11	388	5.81	.....	.....	.....	.....
13,158	1700	204	1.98	220	2.17	233	2.40	245	2.64	260	2.95	272	3.18	285	3.48	309	4.03	338	4.85	**365**	**5.43**	388	6.12	433	7.60	.....	.....
13,932	1800	213	2.25	228	2.52	241	2.71	252	2.98	265	3.29	277	3.64	290	3.88	314	4.46	341	5.20	365	5.81	**388**	**6.59**	432	8.15	478	9.8
14,706	1900	.....	.....	235	2.87	248	3.10	259	3.37	272	3.68	283	3.95	297	4.34	317	4.85	345	5.63	368	6.20	388	6.90	432	8.60	476	10.4
15,480	2000	.....	.....	243	3.22	255	3.49	266	3.80	280	4.08	292	4.42	302	4.73	324	5.27	350	6.00	370	6.75	390	7.45	**432**	**9.16**	476	10.9
17,028	2200	.....	.....	.....	.....	273	4.45	282	4.65	294	5.05	304	5.27	314	5.65	334	6.20	358	7.13	377	7.90	395	8.70	435	10.3	**476**	**12.0**
18,576	2400	.....	.....	.....	.....	290	5.43	299	5.74	312	6.13	319	6.40	328	6.78	346	7.52	368	8.37	385	9.13	403	9.95	441	11.7	478	13.5
20,124	2600	.....	.....	.....	.....	.....	.....	314	6.98	326	7.50	334	7.74	342	8.13	360	8.90	380	9.83	395	10.5	412	11.4	447	13.2	483	15.0
21,672	2800	.....	.....	.....	.....	.....	.....	.....	.....	341	9.06	348	9.29	358	9.68	375	10.5	392	11.4	408	12.2	424	13.1	457	14.7	488	16.7
23,220	3000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	363	10.9	372	11.4	390	12.4	405	13.2	420	15.0	437	14.9	466	16.7	498	18.8
24,768	3200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	380	12.8	392	13.6	407	14.4	421	15.2	434	15.9	451	17.1	476	18.9	505	20.9
26,316	3400	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	409	15.5	425	16.7	438	17.7	451	18.4	466	19.4	491	21.2	518	23.6

No. 3 Type HV Fan, Single Width, Double Inlet

Volume C. F. M.	Outlet Velocity Feet per Min.	¼″ S. P.		⅜″ S. P.		½″ S. P.		⅝″ S. P.		¾″ S. P.		⅞″ S. P.		1″ S. P.		1¼″ S. P.		1½″ S. P.		1¾″ S. P.		2″ S. P.		2½″ S. P.		3″ S. P.	
		R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.
7,740	1000	**141**	**.57**	**165**	**.70**	**186**	**.90**	**211**	**1.09**	230	1.32	252	1.47	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
8,514	1100	146	.62	168	.86	189	1.05	211	1.24	**230**	**1.44**	250	1.59	268	1.86	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
9,288	1200	152	.78	172	.97	192	1.20	211	1.40	230	1.55	**250**	**1.78**	266	2.02	302	2.48	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
10,062	1300	159	.97	177	1.17	194	1.38	213	1.55	230	1.75	250	1.98	**266**	**2.21**	300	2.67	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
10,836	1400	165	1.17	183	1.36	199	1.54	216	1.75	232	1.94	250	2.17	266	2.40	**298**	**2.90**	327	3.45	.....	.....	.....	.....	.....	.....	.....	.....
11,610	1500	172	1.36	189	1.55	204	1.71	221	1.94	235	2.13	252	2.40	266	2.63	298	3.14	326	3.68	354	4.30	.....	.....	.....	.....	.....	.....
12,384	1600	177	1.55	194	1.75	211	1.94	225	2.17	240	2.40	255	2.67	269	2.91	298	3.41	**325**	**3.95**	350	4.57	379	5.23	.....	.....	.....	.....
13,158	1700	187	1.75	201	1.98	216	2.21	230	2.44	242	2.71	258	2.95	269	3.22	298	3.72	325	4.30	**350**	**4.84**	377	5.58	.....	.....	.....	.....
13,932	1800	193	1.94	208	2.21	223	2.56	235	2.71	247	2.98	261	3.29	274	3.57	300	4.07	325	4.65	350	5.23	**374**	**5.93**	421	7.32	.....	.....
14,706	1900	201	2.21	213	2.56	230	2.87	241	3.06	252	3.33	265	3.64	279	3.95	301	4.45	327	5.04	350	5.61	374	6.35	420	7.75	467	9.47
15,480	2000	.....	.....	221	2.79	235	3.14	245	3.41	258	3.68	271	3.95	282	4.34	306	4.77	329	5.42	350	6.05	374	6.82	**419**	**8.30**	462	9.95
17,028	2200	.....	.....	238	3.64	250	3.87	257	4.19	272	4.53	281	4.84	292	5.19	312	5.78	334	6.43	356	7.09	376	7.75	419	9.32	**457**	**10.9**
18,576	2400	.....	.....	.....	.....	265	4.81	272	5.12	284	4.43	294	5.90	302	6.20	322	6.90	341	7.51	360	8.38	380	9.08	419	10.5	457	12.2
20,124	2600	.....	.....	.....	.....	.....	.....	287	6.20	297	6.67	307	6.98	314	7.20	333	8.07	353	8.85	368	9.55	387	10.5	423	12.0	458	13.7
21,672	2800	.....	.....	.....	.....	.....	.....	.....	.....	312	7.99	320	8.38	326	8.70	346	9.47	363	10.3	377	11.0	396	11.9	429	13.6	462	15.3
23,220	3000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	333	9.70	340	10.1	360	11.1	375	11.9	390	12.6	404	13.6	436	15.4	468	17.2
24,768	3200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	353	11.7	372	12.8	387	13.7	402	14.6	416	15.5	446	17.4	475	19.2
26,316	3400	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	370	13.6	387	14.7	399	15.5	412	16.7	426	17.8	454	19.6	482	21.3

NOTE—The black faced type indicates the most efficient point of operation for each pressure.

Values Guaranteed for Standard Air: Temperature, 68°F.; Pressure, 29.92 inches; Weight, .07488 lbs. per cu. ft.

No. 3½ Type HV Fan, Single Width, Single Inlet

Volume C. F. M.	Outlet Velocity Feet per Min.	¼" S. P.		⅜" S. P.		½" S. P.		⅝" S. P.		¾" S. P.		⅞" S. P.		1" S. P.		1¼" S. P.		1½" S. P.		1¾" S. P.		2" S. P.		2½" S. P.		3" S. P.	
		R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.
10,550	1000	**126**	**.80**	**147**	**1.00**	**166**	**1.32**	185	1.59	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
11,605	1100	132	.95	149	1.27	168	1.53	**185**	**1.85**	204	2.01	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
12,660	1200	136	1.22	153	1.53	170	1.80	187	1.95	**204**	**2.32**	219	2.54	236	2.90	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
13,715	1300	143	1.43	160	1.69	174	1.90	189	2.16	204	2.48	**219**	**2.85**	**233**	**3.17**	265	3.96	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
14,770	1400	149	1.69	164	1.96	178	2.16	192	2.54	206	2.85	219	3.17	233	3.43	263	4.23	289	5.02	.....	.....	.....	.....	.....	.....	.....	.....
15,825	1500	156	1.95	170	2.22	183	2.48	195	2.90	210	3.17	223	3.49	233	3.80	**261**	**4.55**	288	5.29	313	6.35	.....	.....	.....	.....	.....	.....
16,880	1600	161	2.17	177	2.59	189	2.90	202	3.17	215	3.59	225	3.96	235	4.23	261	5.02	**286**	**5.70**	311	6.65	336	7.70	.....	.....	.....	.....
17,935	1700	168	2.54	183	2.90	194	3.17	206	3.70	219	4.01	227	4.28	240	4.65	263	5.39	286	6.23	309	7.13	334	8.19	378	10.3	.....	.....
18,990	1800	174	2.90	189	3.33	199	3.70	210	4.01	223	4.44	233	4.75	244	5.07	265	6.01	286	6.77	**309**	**7.65**	332	8.70	376	10.9	416	13.2
20,045	1900	.....	.....	195	3.70	206	4.12	216	4.49	227	4.96	238	5.28	248	5.65	269	6.55	288	7.30	309	8.25	**330**	**9.25**	374	11.5	414	13.7
21,100	2000	.....	.....	201	4.17	212	4.60	223	5.06	233	5.50	244	6.02	253	6.35	271	7.13	290	8.15	309	8.98	332	10.1	370	12.2	410	14.3
23,210	2200	.....	.....	.....	.....	227	5.80	235	6.23	244	6.75	254	7.18	263	7.71	282	8.70	298	9.50	315	10.4	334	11.5	**370**	**13.5**	407	15.9
25,320	2400	.....	.....	.....	.....	240	7.13	248	7.70	256	8.25	267	8.75	275	9.25	292	10.3	307	10.9	323	12.2	338	13.1	370	15.2	**404**	**17.7**
27,430	2600	.....	.....	.....	.....	.....	.....	261	9.30	271	9.90	280	10.5	286	11.0	303	12.2	317	12.9	332	14.1	346	15.1	375	17.3	407	19.8
29,540	2800	.....	.....	.....	.....	.....	.....	.....	.....	284	11.7	292	12.5	300	12.8	315	14.2	328	15.0	342	16.4	357	17.5	382	19.9	410	**22.2**
31,650	3000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	305	14.5	311	15.0	328	16.6	338	17.6	353	19.0	366	20.1	391	22.4	416	25.0
33,760	3200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	318	16.9	325	17.5	340	19.0	351	20.3	366	21.7	378	23.0	399	25.4	425	28.2
35,870	3400	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	338	20.4	353	21.8	364	23.2	376	24.6	388	26.1	412	29.0	433	31.7

No. 3½ Type HV Fan, Single Width, Double Inlet

Volume C. F. M.	Outlet Velocity Feet per Min.	¼" S. P.		⅜" S. P.		½" S. P.		⅝" S. P.		¾" S. P.		⅞" S. P.		1" S. P.		1¼" S. P.		1½" S. P.		1¾" S. P.		2" S. P.		2½" S. P.		3" S. P.	
		R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.
10,550	1000	**121**	**.77**	**141**	**.95**	**160**	**1.22**	**181**	**1.48**	197	1.79	216	2.01	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
11,605	1100	125	.85	144	1.16	162	1.43	181	1.69	**197**	**1.96**	214	2.17	230	2.56	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
12,660	1200	130	1.06	147	1.32	164	1.64	181	1.90	197	2.11	**214**	**2.43**	229	2.75	258	3.38	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
13,715	1300	136	1.32	151	1.59	166	1.88	182	2.11	197	2.38	214	2.70	**229**	**3.01**	256	3.64	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
14,770	1400	141	1.59	156	1.85	170	2.09	185	2.38	199	2.64	214	2.96	229	3.28	**254**	**3.96**	280	4.70	.....	.....	.....	.....	.....	.....	.....	.....
15,825	1500	147	1.85	162	2.11	175	2.32	189	2.64	202	2.91	216	3.28	229	3.59	254	4.28	279	5.03	303	5.87	.....	.....	.....	.....	.....	.....
16,880	1600	151	2.11	167	2.38	181	2.64	193	2.96	206	3.28	218	3.65	231	3.96	254	4.65	**278**	**5.40**	300	6.23	325	7.13	.....	.....	.....	.....
17,935	1700	160	2.38	173	2.69	185	3.01	198	3.33	208	3.70	221	4.02	231	4.38	254	5.07	278	5.87	**300**	**6.60**	323	7.61	.....	.....	.....	.....
18,990	1800	166	2.64	178	3.01	191	3.43	202	3.70	212	4.07	225	4.50	235	4.86	256	5.55	278	6.34	300	7.13	**323**	**8.08**	361	10.0	.....	.....
20,045	1900	173	3.01	183	3.48	196	3.91	207	4.17	216	4.54	228	4.97	240	5.40	258	6.07	279	6.87	300	7.66	323	8.67	360	10.6	400	12.9
21,100	2000	.....	.....	189	3.80	202	4.28	210	4.65	221	5.02	233	5.40	242	5.91	261	6.50	281	7.40	300	8.24	323	9.30	**359**	**11.3**	397	13.6
23,210	2200	.....	.....	204	4.96	214	5.28	221	5.70	233	6.19	241	6.60	250	7.08	267	7.87	286	8.77	305	9.67	323	10.6	359	12.7	**393**	**14.8**
25,320	2400	.....	.....	.....	.....	227	6.55	233	6.97	244	7.40	252	8.05	259	8.45	276	9.40	292	10.3	309	11.4	326	12.4	359	14.3	393	16.6
27,430	2600	.....	.....	.....	.....	.....	.....	246	8.45	254	9.10	263	9.50	269	9.83	286	11.0	302	12.1	316	13.0	332	14.3	363	16.4	393	18.7
29,540	2800	.....	.....	.....	.....	.....	.....	.....	.....	267	11.0	275	11.5	279	11.9	296	12.9	311	14.1	323	14.9	339	16.3	368	18.5	397	20.8
31,650	3000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	286	13.2	292	13.8	308	15.1	321	16.2	334	17.1	347	18.5	374	20.9	402	**23.5**
33,760	3200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	303	15.9	319	17.5	332	18.6	344	19.9	357	21.1	382	23.7	408	**26.2**
35,870	3400	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	318	18.5	332	20.1	343	21.1	353	22.7	366	24.3	389	26.6	413	29.1

NOTE—The black faced type indicates the most efficient point of operation for each pressure.

Values Guaranteed for Standard Air: Temperature, 68°F.; Pressure, 29.92 inches; Weight, .07488 lbs. per cu. ft.

No. 4 Type HV Fan, Single Width, Single Inlet

Volume C. F. M.	Outlet Velocity Feet per Min.	¼" S. P.		⅜" S. P.		½" S. P.		⅝" S. P.		¾" S. P.		⅞" S. P.		1" S. P.		1¼" S. P.		1½" S. P.		1¾" S. P.		2" S. P.		2½" S. P.		3" S. P.	
		R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.
13,770	1000	**111**	**1.05**	**129**	**1.31**	**146**	**1.72**	162	2.07	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
15,147	1100	116	1.25	131	1.66	147	2.00	**162**	**2.41**	179	2.62	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
16,524	1200	120	1.59	134	2.00	149	2.35	164	2.55	**179**	**3.03**	191	3.31	206	3.79	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
17,901	1300	125	1.86	140	2.21	152	2.48	166	2.83	179	3.24	**191**	**3.72**	**204**	**4.14**	232	5.17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
19,278	1400	131	2.21	143	2.55	156	2.83	168	3.31	180	3.72	192	4.13	204	4.49	230	5.52	253	6.55	.....	.....	.....	.....	.....	.....	.....	.....
20,655	1500	136	2.55	149	2.90	160	3.24	171	3.80	184	4.14	195	4.55	204	4.97	**228**	**5.93**	252	6.90	274	8.28	.....	.....	.....	.....	.....	.....
22,032	1600	141	2.82	155	3.35	165	3.79	177	4.13	188	4.69	197	5.17	206	5.52	228	6.55	**250**	**7.45**	272	8.70	294	10.1	.....	.....	.....	.....
23,409	1700	147	3.31	160	3.80	169	4.13	180	4.83	191	5.24	199	5.60	210	6.07	230	7.03	250	8.13	270	9.30	292	10.7	331	13.5	.....	.....
24,786	1800	153	3.80	166	4.34	175	4.83	184	5.25	195	5.80	204	6.20	214	6.62	232	7.86	250	8.82	**270**	**10.0**	290	11.4	328	14.2	364	17.3
26,163	1900	.....	.....	171	4.83	180	5.38	189	5.87	199	6.50	208	6.90	217	7.40	236	8.55	252	9.24	270	10.8	289	**12.1**	327	15.0	362	17.9
27,540	2000	.....	.....	176	4.75	185	6.00	195	6.62	204	7.18	213	7.87	221	8.28	238	9.30	254	10.6	270	11.7	290	13.1	324	15.9	359	18.6
30,294	2200	.....	.....	.....	.....	197	7.60	206	7.45	213	8.85	223	9.40	230	10.1	246	11.4	261	12.4	276	13.5	292	15.0	**324**	**17.7**	355	20.7
33,048	2400	.....	.....	.....	.....	210	9.30	217	10.1	224	10.8	233	11.5	240	12.1	255	13.4	268	14.2	282	15.9	296	17.1	324	19.9	**353**	**23.0**
35,802	2600	.....	.....	.....	.....	.....	.....	228	12.2	238	13.0	245	13.7	250	15.1	265	15.8	278	16.8	290	18.4	303	19.7	329	22.6	355	25.6
38,556	2800	.....	.....	.....	.....	.....	.....	.....	.....	248	15.5	255	16.3	262	16.7	276	18.5	287	19.6	299	21.4	312	22.9	334	25.9	359	29.0
41,310	3000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	267	19.2	272	19.6	287	21.7	296	23.0	309	24.8	320	26.2	342	29.2	364	32.5
44,064	3200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	278	22.1	284	22.9	298	24.8	307	26.5	320	28.3	331	30.1	349	33.1	371	36.8
46,818	3400	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	293	26.5	309	28.6	318	30.3	329	32.1	340	34.0	360	37.9	379	41.4

No. 4 Type HV Fan, Single Width, Double Inlet

Volume C. F. M.	Outlet Velocity Feet per Min.	¼" S. P.		⅜" S. P.		½" S. P.		⅝" S. P.		¾" S. P.		⅞" S. P.		1" S. P.		1¼" S. P.		1½" S. P.		1¾" S. P.		2" S. P.		2½" S. P.		3" S. P.	
		R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.
13,770	1000	**106**	**1.01**	**123**	**1.25**	**140**	**1.59**	**158**	**1.93**	173	2.35	189	2.62	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
15,147	1100	109	1.11	126	1.52	142	1.87	158	2.21	**173**	**2.55**	188	2.83	202	3.31	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
16,524	1200	114	1.38	129	1.73	144	2.14	158	2.49	173	2.76	**188**	**3.18**	200	3.59	226	4.42	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
17,901	1300	119	1.73	132	2.07	146	2.46	160	2.76	173	3.10	188	3.52	**200**	**3.93**	224	4.76	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
19,278	1400	123	2.07	137	2.42	149	2.73	162	3.11	174	3.45	188	3.86	200	4.28	**223**	**5.18**	245	6.15	.....	.....	.....	.....	.....	.....	.....	.....
20,655	1500	129	2.42	141	2.76	153	3.04	166	3.45	176	3.80	189	4.28	200	4.69	223	5.60	244	6.57	264	7.66	.....	.....	.....	.....	.....	.....
22,032	1600	132	2.76	146	3.11	158	3.45	169	3.87	180	4.28	191	4.77	202	5.18	223	6.08	**243**	**7.05**	262	8.15	284	9.32	.....	.....	.....	.....
23,409	1700	140	3.11	151	3.52	162	3.93	173	4.35	182	4.83	193	5.25	202	5.73	223	6.63	243	7.67	**262**	**8.64**	283	10.0	.....	.....	.....	.....
24,786	1800	145	3.45	156	3.93	167	4.49	176	4.83	186	5.31	197	5.87	206	6.35	224	7.25	243	8.29	262	9.33	**281**	**10.6**	316	13.1	.....	.....
26,163	1900	151	3.93	160	4.56	173	5.10	181	5.46	189	5.94	199	6.50	210	7.05	226	7.95	245	8.98	262	10.0	281	11.3	314	13.8	350	16.9
27,540	2000	.....	.....	165	4.97	177	5.60	184	6.08	193	6.57	204	7.05	212	7.73	229	8.50	246	9.67	262	10.8	281	12.2	**314**	**14.8**	346	17.7
30,294	2200	.....	.....	179	6.50	187	6.90	193	7.45	204	8.08	211	8.63	219	9.25	234	10.3	250	11.5	266	12.7	282	13.8	314	16.6	**344**	**19.3**
33,048	2400	.....	.....	.....	.....	198	8.57	204	9.11	214	9.67	221	10.5	227	11.1	242	12.3	256	13.4	270	14.9	285	16.2	314	18.7	344	21.7
35,802	2600	.....	.....	.....	.....	.....	.....	215	11.1	223	11.9	230	12.5	235	12.9	250	14.4	264	15.8	276	17.0	290	18.7	318	21.4	344	24.5
38,556	2800	.....	.....	.....	.....	.....	.....	.....	.....	234	14.2	241	14.9	245	15.5	259	16.9	272	18.4	283	19.5	297	21.1	322	24.2	346	27.2
41,310	3000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	250	17.3	255	18.0	270	19.8	281	21.1	292	22.4	303	24.2	327	27.4	351	30.7
44,064	3200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	265	20.7	279	22.8	290	24.3	301	26.0	312	27.6	334	31.0	357	34.3
46,818	3400	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	278	24.2	290	26.2	299	27.6	309	29.7	320	31.8	340	34.8	362	38.0

NOTE—The black faced type indicates the most efficient point of operation for each pressure.

Values Guaranteed for Standard Air: Temperature, 68°F.; Pressure, 29.92 inches; Weight, .07488 lbs. per cu. ft.

No. 4½ Type HV Fan, Single Width, Single Inlet

Volume C. F. M.	Outlet Velocity Feet per Min.	¼" S. P.		⅜" S. P.		½" S. P.		⅝" S. P.		¾" S. P.		⅞" S. P.		1" S. P.		1¼" S. P.		1½" S. P.		1¾" S. P.		2" S. P.		2½" S. P.		3" S. P.	
		R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.
17,400	1000	**98**	**1.31**	**114**	**1.65**	**129**	**2.17**	144	2.61	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
19,140	1100	103	1.57	116	2.09	131	2.52	**144**	**3.05**	158	3.30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
20,880	1200	106	2.00	119	2.52	132	2.96	145	3.22	**158**	**3.83**	170	4.18	183	4.79	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
22,620	1300	111	2.35	124	2.79	135	3.13	147	3.57	158	4.09	**170**	**4.70**	**181**	**5.23**	206	6.52	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
24,360	1400	116	2.80	127	3.22	139	3.57	149	4.18	160	4.70	171	5.22	181	5.65	204	6.96	225	8.27	.....	.....	.....	.....	.....	.....	.....	.....
26,100	1500	121	3.22	132	3.65	142	4.05	152	4.78	163	5.22	173	5.74	181	6.26	**203**	**7.48**	223	8.70	244	10.4	.....	.....	.....	.....	.....	.....
27,840	1600	126	3.57	137	4.27	147	4.79	157	5.22	167	5.92	175	6.52	183	6.96	203	8.27	**222**	**9.40**	242	11.1	261	12.7	.....	.....	.....	.....
29,580	1700	130	4.18	142	4.79	150	5.22	160	6.10	170	6.61	177	7.04	186	7.66	204	8.88	222	10.3	240	11.8	260	13.5	294	17.0	.....	.....
31,320	1800	136	4.78	147	5.48	155	6.09	163	6.62	173	7.30	181	7.83	189	8.35	206	9.92	222	11.1	**240**	**12.5**	258	14.4	292	17.9	323	21.7
33,060	1900	.....	.....	152	6.09	160	6.78	168	7.40	176	8.17	184	8.70	193	9.32	209	10.8	223	12.0	240	13.6	**256**	**15.2**	290	19.0	321	22.7
34,800	2000	.....	.....	156	6.87	165	7.58	173	8.35	181	9.05	189	9.92	196	10.4	211	11.7	225	13.4	240	14.8	258	16.5	287	20.0	318	23.5
38,280	2200	.....	.....	.....	.....	175	9.58	183	10.3	189	11.1	198	11.8	204	12.5	219	14.4	232	15.7	245	17.0	259	19.0	**287**	**22.3**	315	26.1
41,760	2400	.....	.....	.....	.....	186	11.7	193	12.7	199	13.6	207	14.5	214	15.2	227	16.9	238	17.9	251	20.0	262	21.6	287	25.1	**313**	**29.0**
45,240	2600	.....	.....	.....	.....	.....	.....	205	15.3	210	16.4	218	17.2	222	18.0	235	20.0	247	21.2	258	23.2	269	24.9	292	28.5	315	32.5
48,720	2800	.....	.....	.....	.....	.....	.....	.....	.....	220	19.5	227	20.5	233	21.1	245	23.3	255	24.7	266	27.0	277	28.9	297	32.7	319	36.5
52,200	3000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	237	24.2	242	24.7	255	27.4	263	29.1	274	31.4	284	33.1	304	36.9	323	41.1
55,680	3200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	247	27.9	253	28.9	265	31.3	272	33.4	284	35.7	294	37.9	310	41.7	330	46.5
59,160	3400	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	264	33.4	274	36.0	282	38.3	292	40.6	303	43.0	320	47.9	336	52.2

No. 4½ Type HV Fan, Single Width, Double Inlet

Volume C. F. M.	Outlet Velocity Feet per Min.	¼" S. P.		⅜" S. P.		½" S. P.		⅝" S. P.		¾" S. P.		⅞" S. P.		1" S. P.		1¼" S. P.		1½" S. P.		1¾" S. P.		2" S. P.		2½" S. P.		3" S. P.	
		R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.
17,400	1000	**94**	**1.27**	**110**	**1.57**	**125**	**2.00**	**141**	**2.44**	154	2.96	168	3.31	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
19,140	1100	98	1.40	112	1.92	126	2.35	141	2.79	**154**	**3.22**	167	3.57	179	4.18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
20,880	1200	102	1.74	115	2.18	128	2.70	141	3.14	154	3.48	**167**	**4.00**	178	4.53	201	5.57	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
22,620	1300	106	2.18	118	2.61	130	3.10	142	3.48	154	3.92	167	4.44	**178**	**4.97**	200	6.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
24,360	1400	110	2.61	122	3.05	132	3.45	144	3.93	155	4.35	167	4.88	178	5.40	**198**	**6.53**	218	7.75	.....	.....	.....	.....	.....	.....	.....	.....
26,100	1500	115	3.05	126	3.48	136	3.83	147	4.35	157	4.78	168	5.40	178	5.93	198	7.05	217	8.28	235	9.65	.....	.....	.....	.....	.....	.....
27,840	1600	118	3.48	130	3.92	141	4.35	151	4.88	160	5.40	170	6.00	180	6.53	198	7.65	**217**	**8.88**	233	10.3	253	11.8	.....	.....	.....	.....
29,580	1700	125	3.92	134	4.45	144	4.95	154	5.49	162	6.10	172	6.62	180	7.23	198	8.35	217	9.65	**233**	**10.9**	252	12.6	.....	.....	.....	.....
31,320	1800	129	4.35	139	4.97	149	5.65	157	6.09	165	6.70	175	7.40	183	8.02	200	9.15	217	10.5	233	11.8	**250**	**13.4**	281	16.5	.....	.....
33,060	1900	134	4.97	142	5.75	153	6.45	161	6.88	168	7.50	177	8.19	186	8.89	201	10.0	218	11.3	233	12.6	250	14.3	280	17.4	312	21.3
34,800	2000	.....	.....	147	6.27	157	7.05	163	7.65	172	8.27	181	8.88	188	9.75	203	10.7	219	12.2	233	13.6	250	15.3	**279**	**18.7**	309	22.3
38,280	2200	.....	.....	159	8.18	167	8.70	172	9.40	181	10.2	188	10.9	195	11.7	209	13.0	223	14.5	237	16.0	251	17.4	279	20.9	**306**	**24.4**
41,760	2400	.....	.....	.....	.....	177	10.8	181	11.5	190	12.2	196	13.3	201	14.0	215	15.5	228	16.9	240	18.8	254	20.4	279	23.5	306	27.4
45,240	2600	.....	.....	.....	.....	.....	.....	191	14.0	198	15.0	205	15.7	209	16.2	222	18.1	235	19.9	246	21.4	258	23.5	283	27.0	306	30.8
48,720	2800	.....	.....	.....	.....	.....	.....	.....	.....	208	18.0	214	18.8	217	19.5	231	21.3	242	23.2	252	24.6	264	26.7	286	30.5	309	34.3
52,200	3000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	223	21.8	227	22.7	240	24.9	250	26.7	260	28.2	270	30.5	291	34.5	313	38.7
55,680	3200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	235	26.1	248	28.7	258	30.6	268	32.7	278	34.8	298	39.0	317	43.2
59,160	3400	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	247	30.5	258	33.1	266	34.8	275	37.4	284	40.0	303	43.9	322	47.9

NOTE—The black faced type indicates the most efficient point of operation for each pressure.

Values Guaranteed for Standard Air: Temperature, 68°F.; Pressure, 29.92 inches; Weight, .07488 lbs. per cu. ft.

No. 5 Type HV Fan, Single Width, Single Inlet

Volume C. F. M.	Outlet Velocity Feet per Min.	¼" S. P.		⅜" S. P.		½" S. P.		⅝" S. P.		¾" S. P.		⅞" S. P.		1" S. P.		1¼" S. P.		1½" S. P.		1¾" S. P.		2" S. P.		2½" S. P.		3" S. P.	
		R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.
21,500	1000	**88**	**1.61**	**103**	**2.04**	**116**	**2.69**	129	3.23	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
23,650	1100	93	1.93	105	2.58	118	3.12	**129**	**3.77**	143	4.09	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
25,800	1200	96	2.47	107	3.12	119	3.65	131	3.98	**143**	**4.74**	153	5.16	165	5.92	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
27,950	1300	100	2.90	112	3.45	122	3.87	132	4.41	143	5.05	**153**	**5.80**	**163**	**6.45**	185	8.07	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
30,100	1400	104	3.44	115	3.96	125	4.41	134	5.16	144	5.80	154	6.45	163	7.00	184	8.60	202	10.2	.....	.....	.....	.....	.....	.....	.....	.....
32,250	1500	109	3.96	119	4.52	128	5.07	137	5.91	147	6.46	156	7.10	163	7.75	**182**	**9.25**	201	10.8	220	12.9	.....	.....	.....	.....	.....	.....
34,400	1600	113	4.41	124	5.27	132	5.92	140	6.45	150	7.32	157	8.07	165	8.60	182	10.2	**200**	**11.6**	218	13.6	235	15.7	.....	.....	.....	.....
36,550	1700	118	5.16	128	5.92	135	6.45	144	7.54	153	8.18	159	8.71	168	9.46	183	11.0	200	12.7	**216**	14.5	234	16.7	265	21.0	.....	.....
38,700	1800	122	5.92	132	6.78	139	7.54	147	8.17	156	9.03	163	9.67	171	10.3	185	12.3	200	13.8	**216**	**15.6**	232	**17.8**	263	22.2	291	26.9
40,850	1900	.....	.....	137	7.53	144	8.40	152	9.15	159	10.1	166	10.8	174	11.5	188	13.3	201	14.8	216	16.8	**230**	**18.8**	262	23.5	290	28.0
43,000	2000	.....	.....	141	8.50	149	9.35	156	10.3	163	11.2	171	12.3	177	12.9	190	14.5	203	16.6	216	18.3	232	20.4	259	24.7	287	29.0
47,300	2200	.....	.....	.....	.....	158	11.8	165	12.7	171	13.8	178	14.6	184	15.5	197	17.7	209	19.3	220	21.1	233	23.5	**259**	**27.5**	284	32.3
51,600	2400	.....	.....	.....	.....	168	14.5	174	15.7	179	16.8	187	17.8	192	18.8	204	20.9	215	22.2	226	24.7	237	26.7	259	31.0	**282**	**35.9**
55,900	2600	.....	.....	.....	.....	.....	.....	182	18.9	190	20.2	196	21.3	200	22.4	212	24.7	222	26.2	232	28.6	242	30.8	263	35.3	284	40.2
60,200	2800	.....	.....	.....	.....	.....	.....	.....	.....	199	24.1	205	25.4	210	26.0	220	28.9	229	30.5	240	33.3	250	35.7	268	40.4	287	45.2
64,500	3000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	213	29.9	217	30.6	230	33.8	237	35.9	247	38.6	256	40.8	273	45.6	291	50.8
68,800	3200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	222	34.4	228	35.7	238	38.8	246	41.3	256	44.0	265	46.8	280	51.6	297	57.4
73,100	3400	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	237	41.3	247	44.5	254	47.4	263	50.1	272	53.0	288	59.2	303	64.5

No. 5 Type HV Fan, Single Width, Double Inlet

Volume C. F. M.	Outlet Velocity Feet per Min.	¼" S. P.		⅜" S. P.		½" S. P.		⅝" S. P.		¾" S. P.		⅞" S. P.		1" S. P.		1¼" S. P.		1½" S. P.		1¾" S. P.		2" S. P.		2½" S. P.		3" S. P.	
		R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.
21,500	1000	**85**	**1.58**	**100**	**1.95**	**112**	**2.48**	**127**	**3.01**	138	3.66	151	4.09	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
23,650	1100	88	1.73	101	2.37	113	2.90	127	3.44	**138**	**3.98**	150	4.41	161	5.17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
25,800	1200	91	2.15	103	2.69	115	3.33	127	3.88	138	4.30	**150**	**4.95**	160	5.60	181	6.90	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
27,950	1300	95	2.69	106	3.23	117	3.84	128	4.31	138	4.84	150	5.50	**160**	**6.13**	179	7.43	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
30,100	1400	99	3.23	110	3.77	119	4.26	130	4.85	140	5.39	150	6.03	160	6.68	**178**	**8.08**	196	9.59	.....	.....	.....	.....	.....	.....	.....	.....
32,250	1500	103	3.77	113	4.30	122	4.73	132	5.38	141	5.92	151	6.67	160	7.31	178	8.72	195	10.3	212	12.0	.....	.....	.....	.....	.....	.....
34,400	1600	106	4.30	117	4.85	126	5.39	135	6.03	144	6.68	153	7.42	162	8.07	178	9.48	**195**	**11.0**	210	12.7	227	14.6	.....	.....	.....	.....
36,550	1700	112	4.85	121	5.50	130	6.15	138	6.78	146	7.53	155	8.18	162	8.93	178	10.4	195	12.0	**210**	**13.5**	226	15.5	.....	.....	.....	.....
38,700	1800	116	5.39	125	6.15	134	7.00	141	7.53	149	8.29	157	9.15	165	9.90	179	11.3	195	13.0	210	14.6	**225**	**16.5**	253	20.4	.....	.....
40,850	1900	121	6.15	128	7.10	137	7.97	145	8.50	151	9.25	160	10.2	168	11.0	181	12.4	196	14.0	210	15.6	225	17.7	252	21.5	281	26.3
43,000	2000	.....	.....	132	7.75	141	8.72	147	9.47	155	10.3	163	11.0	170	12.1	183	13.3	197	15.1	210	16.8	225	19.0	**251**	**23.0**	278	27.6
47,300	2200	.....	.....	143	10.1	150	10.8	155	11.7	163	12.6	169	13.5	175	14.5	188	16.1	201	17.9	213	19.7	226	21.5	251	25.8	**275**	**30.2**
51,600	2400	.....	.....	.....	.....	159	13.4	163	14.2	171	15.1	177	16.4	181	17.3	193	19.3	205	20.9	216	23.3	228	25.2	251	29.1	275	33.8
55,900	2600	.....	.....	.....	.....	.....	.....	172	17.3	178	18.6	184	19.4	188	20.0	200	22.4	212	24.6	221	26.5	232	29.1	254	33.4	275	38.1
60,200	2800	.....	.....	.....	.....	.....	.....	.....	.....	187	22.2	192	23.3	196	24.2	207	26.2	217	28.7	226	30.4	238	32.9	257	37.7	278	42.5
64,500	3000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	200	26.9	204	28.0	216	30.8	225	33.0	234	34.9	243	37.6	262	42.7	281	47.8
68,800	3200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	212	32.3	223	35.5	232	37.9	241	40.5	250	43.0	268	48.3	285	53.4
73,100	3400	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	222	37.7	232	41.0	240	43.0	247	46.3	256	49.5	272	54.3	290	59.3

NOTE—The black faced type indicates the most efficient point of operation for each pressure.

Values Guaranteed for Standard Air: Temperature, 68°F.; Pressure, 29.92 inches; Weight, .07488 lbs. per cu. ft.

No. 5½ Type HV Fan, Single Width, Single Inlet

Volume C. F. M.	Outlet Velocity Feet per Min.	¼″ S. P.		⅜″ S. P.		½″ S. P.		⅝″ S. P.		¾″ S. P.		⅞″ S. P.		1″ S. P.		1¼″ S. P.		1½″ S. P.		1¾″ S. P.		2″ S. P.		2½″ S. P.		3″ S. P.	
		R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.
26,050	1000	**80**	**1.95**	**94**	**2.48**	**106**	**3.25**	118	3.91	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
28,655	1100	84	2.35	95	3.13	107	3.78	**118**	**4.56**	130	4.95	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
31,260	1200	87	3.00	98	3.78	109	4.43	119	4.82	**130**	**5.73**	139	6.25	150	7.16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
33,865	1300	91	3.52	102	4.17	111	4.70	120	5.34	130	6.12	**139**	**7.04**	**149**	**7.82**	168	9.75	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
36,470	1400	95	4.16	104	4.82	113	5.34	122	6.25	131	7.03	140	7.82	149	8.46	167	10.4	184	12.4	.....	.....	.....	.....	.....	.....	.....	.....
39,075	1500	99	4.82	108	5.47	116	6.42	124	7.16	134	7.82	142	8.60	149	9.38	**166**	**11.2**	183	13.1	199	15.6	.....	.....	.....	.....	.....	.....
41,680	1600	103	5.34	112	6.38	120	7.17	128	7.82	136	8.85	143	9.76	150	10.4	166	12.4	**182**	**14.1**	198	16.4	214	19.0	.....	.....	.....	.....
44,285	1700	107	6.26	116	7.17	123	7.82	131	9.12	139	9.90	144	10.6	152	11.5	167	13.3	182	15.4	197	17.6	213	20.2	241	25.4	.....	.....
46,890	1800	111	7.16	120	8.20	127	9.12	134	9.90	142	10.9	149	11.7	155	12.5	168	15.0	182	16.7	**197**	**18.6**	211	21.5	239	26.8	265	32.6
49.495	1900	.....	.....	124	9.11	131	10.2	138	11.1	144	12.3	151	13.0	158	13.9	171	16.2	183	18.0	197	20.6	**210**	**22.8**	238	28.4	264	33.9
52,100	2000	.....	.....	128	10.3	135	11.3	142	12.5	149	13.6	155	14.9	160	15.6	172	17.6	184	20.1	197	22.2	211	24.8	235	30.0	261	35.2
57,310	2200	.....	.....	.....	.....	143	14.3	150	15.4	155	16.7	162	17.7	167	19.0	179	21.5	190	23.5	201	25.5	212	28.4	**235**	**33.4**	258	39.1
62,520	2400	.....	.....	.....	.....	152	17.6	158	19.0	163	20.3	170	21.6	175	22.8	186	25.3	195	26.7	205	30.0	215	32.3	235	37.5	**256**	**43.5**
67,730	2600	.....	.....	.....	.....	.....	.....	166	23.0	172	24.5	178	25.8	182	27.1	192	29.8	202	31.6	211	34.7	220	37.3	239	42.8	258	48.8
72,940	2800	.....	.....	.....	.....	.....	.....	.....	.....	181	29.3	186	31.8	191	31.5	201	34.8	208	36.9	218	40.4	227	43.3	243	49.0	261	54.7
78,150	3000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	194	36.2	198	37.0	208	40.8	215	43.4	225	46.9	233	49.6	249	55.2	265	61.5
83,360	3200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	202	41.7	207	43.1	217	46.7	223	49.8	233	53.4	241	56.8	254	62.6	270	69.6
88,570	3400	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	215	50.0	225	53.7	231	57.1	239	60.7	247	64.4	262	71.6	275	78.2

No. 5½ Type HV Fan, Single Width, Double Inlet

Volume C. F. M.	Outlet Velocity Feet per Min.	¼″ S. P.		⅜″ S. P.		½″ S. P.		⅝″ S. P.		¾″ S. P.		⅞″ S. P.		1″ S. P.		1¼″ S. P.		1½″ S. P.		1¾″ S. P.		2″ S. P.		2½″ S. P.		3″ S. P.	
		R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.
26,050	1000	77	**1.91**	**90**	**2.35**	**102**	**3.00**	**115**	**3.65**	126	4.44	138	4.97	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
28,655	1100	80	2.09	92	2.87	103	3.53	115	4.18	**126**	**4.83**	136	5.35	147	6.27	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
31,260	1200	83	2.61	94	3.27	104	4.05	115	4.70	126	5.23	**136**	**6.00**	145	6.80	165	8.36	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
33,865	1300	87	3.27	97	3.92	106	4.65	116	5.23	126	5.88	136	6.66	**145**	**7.45**	163	9.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
36,470	1400	90	3.92	100	4.57	108	5.17	118	5.88	127	6.53	136	7.31	145	8.10	**162**	**9.80**	178	11.6	.....	.....	.....	.....	.....	.....	.....	.....
39,075	1500	94	4.57	103	5.23	111	5.75	120	6.53	128	7.19	138	8.10	145	8.88	162	10.6	178	12.5	193	14.5	.....	.....	.....	.....	.....	.....
41,680	1600	96	5.23	105	5.88	115	6.53	123	7.32	131	8.10	139	9.00	147	9.80	162	11.5	**177**	**13.4**	191	15.4	207	17.7	.....	.....	.....	.....
44,285	1700	102	5.88	110	6.66	118	7.45	126	8.23	132	9.15	141	9.95	147	10.9	162	12.6	177	14.5	**191**	**16.3**	206	18.8	.....	.....	.....	.....
46,890	1800	105	6.53	113	7.45	121	8.50	128	9.15	135	10.1	143	11.1	150	12.0	163	13.7	177	15.7	191	17.6	**205**	**20.0**	230	24.7	.....	.....
49,495	1900	110	7.45	116	8.63	125	9.68	132	10.3	138	11.3	145	12.3	152	13.3	164	15.0	178	17.0	191	18.9	205	21.4	229	26.1	255	31.9
52,100	2000	.....	.....	120	9.40	128	10.6	134	11.5	140	12.4	148	13.3	154	14.6	166	16.1	179	18.3	191	20.4	205	23.0	228	**28.0**	252	33.4
57,310	2200	.....	.....	130	12.3	136	13.1	141	14.1	148	15.3	153	16.3	160	17.5	171	19.5	183	21.7	194	23.9	205	26.1	228	31.4	**250**	**36.6**
62,520	2400	.....	.....	.....	.....	145	16.2	148	17.2	155	18.3	161	19.9	165	20.9	176	23.3	186	25.4	197	28.2	207	30.6	228	35.3	250	41.0
67,730	2600	.....	.....	.....	.....	.....	.....	157	20.9	162	22.5	167	23.5	171	24.3	182	27.2	193	29.8	201	32.2	211	35.3	231	40.5	250	46.3
72,940	2800	.....	.....	.....	.....	.....	.....	.....	.....	170	26.9	175	28.2	178	29.3	189	31.9	198	34.8	206	36.8	216	40.0	234	45.7	252	51.5
78,150	3000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	182	32.7	186	34.0	196	37.4	204	40.0	213	42.3	220	45.8	238	51.8	256	58.0
83,360	3200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	193	39.2	203	43.1	211	46.0	219	49.1	227	52.2	243	58.5	259	64.8
88,570	3400	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	202	45.7	211	49.7	218	52.2	225	56.2	233	60.2	247	66.0	264	72.0

NOTE—The black faced type indicates the most efficient point of operation for each pressure.

Values Guaranteed for Standard Air: Temperature, 68°F.; Pressure, 29.92 inches; Weight, .07488 lbs. per cu. ft.

No. 6 Type HV Fan, Single Width, Single Inlet

Volume C. F. M.	Outlet Velocity Feet per Min.	¼" S. P.		⅜" S. P.		½" S. P.		⅝" S. P.		¾" S. P.		⅞" S. P.		1" S. P.		1¼" S. P.		1½" S. P.		1¾" S. P.		2" S. P.		2½" S. P.		3" S. P.	
		R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.
30,950	1000	**74**	**2.32**	**86**	**2.94**	**97**	**3.87**	108	4.64	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
34,045	1100	77	2.79	87	3.71	98	4.48	**108**	**5.42**	119	5.88	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
37,140	1200	80	3.57	92	4.49	99	5.26	109	5.73	**119**	**6.82**	128	7.43	137	8.52	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
40,235	1300	84	4.19	93	4.95	102	5.57	111	6.35	119	7.28	**128**	**8.36**	**136**	**9.30**	154	11.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
43,330	1400	87	4.95	95	5.72	104	6.35	112	7.44	120	8.36	128	9.30	136	10.1	153	12.4	169	14.7	.....	.....	.....	.....	.....	.....	.....	.....
46,425	1500	91	5.72	99	6.50	107	7.28	114	8.50	123	9.30	130	10.2	136	11.2	**152**	**13.3**	168	15.5	183	18.6	.....	.....	.....	.....	.....	.....
49,520	1600	94	6.34	103	7.60	110	8.50	118	9.30	125	10.5	131	11.6	137	12.4	152	14.7	**167**	**16.7**	181	19.5	196	22.6	.....	.....	.....	.....
52,615	1700	98	7.42	107	8.50	113	9.30	120	10.8	127	11.8	132	12.5	139	13.6	153	15.8	167	18.3	180	20.9	195	24.0	221	30.2	.....	.....
55,710	1800	102	8.50	110	9.75	116	10.8	123	11.8	130	13.0	136	13.9	142	14.9	154	17.6	167	19.8	**180**	**22.5**	194	25.5	219	31.9	243	38.4
58,805	1900	.....	.....	114	10.8	120	12.1	126	13.2	133	14.5	139	15.5	145	16.6	157	19.2	168	21.4	180	24.1	**192**	**27.1**	218	33.8	241	40.3
61,900	2000	.....	.....	117	12.2	124	13.5	130	14.9	136	16.0	141	17.6	147	18.6	158	20.9	169	23.8	180	26.3	194	29.4	216	35.6	239	41.8
68,090	2200	.....	.....	.....	.....	131	17.0	137	18.3	142	19.8	148	21.0	153	22.6	164	25.6	174	27.8	184	30.6	195	33.7	**216**	**39.6**	237	46.5
74,280	2400	.....	.....	.....	.....	140	20.9	145	22.6	150	24.2	156	25.7	160	27.2	170	30.0	179	31.9	188	35.6	197	38.4	216	44.6	**235**	**51.7**
80,470	2600	.....	.....	.....	.....	.....	.....	152	27.3	158	29.1	163	30.6	167	32.2	177	35.6	185	37.8	194	41.2	202	44.3	219	50.8	237	57.9
86,660	2800	.....	.....	.....	.....	.....	.....	.....	.....	165	34.7	170	36.5	175	37.5	184	41.5	191	44.0	200	48.0	208	51.4	223	58.3	239	65.0
92,850	3000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	178	42.6	182	44.0	191	48.6	197	51.8	206	55.8	213	58.9	228	65.6	243	73.1
99,040	3200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	185	49.5	189	51.4	199	55.7	204	59.4	213	63.4	221	67.5	233	74.4	248	82.7
105,230	3400	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	197	59.5	206	64.0	212	68.1	219	72.2	227	76.5	240	85.2	254	93.0

No. 6 Type HV Fan, Single Width, Double Inlet

Volume C. F. M.	Outlet Velocity Feet Per Min.	¼" S. P.		⅜" S. P.		½" S. P.		⅝" S. P.		¾" S. P.		⅞" S. P.		1" S. P.		1¼" S. P.		1½" S. P.		1¾" S. P.		2" S. P.		2½" S. P.		3" S. P.	
		R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.
30,950	1000	**70**	**2.27**	**82**	**2.79**	**93**	**3.56**	**106**	**4.34**	115	5.27	126	5.89	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
34,045	1100	73	2.48	84	3.41	95	4.19	106	4.95	**115**	**5.73**	125	6.37	134	7.44	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
37,140	1200	76	3.10	86	3.87	96	4.81	106	5.58	115	6.20	**125**	**7.13**	134	8.05	151	9.90	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
40,235	1300	79	3.88	88	4.65	97	5.51	107	6.20	115	7.00	125	7.90	**134**	**8.82**	150	10.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
43,330	1400	82	4.66	91	5.43	100	6.13	108	7.00	116	7.75	125	8.18	134	9.60	**149**	**11.6**	163	13.8	.....	.....	.....	.....	.....	.....	.....	.....
46,425	1500	86	5.42	94	6.20	102	6.82	110	7.75	118	8.50	126	9.70	134	10.6	149	12.6	163	14.7	177	17.2	.....	.....	.....	.....	.....	.....
49,520	1600	88	6.20	97	7.00	105	7.75	**113**	8.68	120	9.60	128	10.7	135	11.7	149	13.6	**162**	**15.8**	175	18.3	190	20.9	.....	.....	.....	.....
52,615	1700	93	7.00	101	7.90	108	8.83	115	9.78	121	10.9	129	11.8	135	12.9	149	14.9	162	17.2	**175**	**19.4**	189	22.3	.....	.....	.....	.....
55,710	1800	97	7.75	104	8.83	111	10.1	118	10.9	124	12.0	131	13.2	138	14.3	150	16.3	162	18.6	175	20.9	**187**	**23.7**	211	29.3	.....	.....
58,805	1900	101	8.83	107	10.2	114	11.5	121	12.3	126	13.4	133	14.6	140	15.8	151	17.8	163	20.2	175	22.5	187	25.4	210	31.0	234	37.8
61,900	2000	.....	.....	110	11.2	118	12.6	123	13.7	129	14.7	136	15.8	141	17.4	153	19.1	164	21.7	175	24.2	187	27.3	**209**	**33.2**	232	39.6
68,090	2200	.....	.....	119	14.6	125	15.5	129	16.7	136	18.2	141	19.4	146	20.8	156	23.1	167	25.7	178	28.3	188	31.0	209	37.2	**229**	**43.3**
74,280	2400	.....	.....	.....	.....	133	19.2	136	20.5	142	21.7	147	23.6	151	24.8	161	27.6	171	30.1	180	33.4	190	36.2	209	41.8	229	48.6
80,470	2600	.....	.....	.....	.....	.....	.....	144	24.8	149	26.7	154	27.9	157	28.8	167	32.2	177	35.3	185	38.1	194	41.8	212	48.0	229	54.8
86,660	2800	.....	.....	.....	.....	.....	.....	.....	.....	156	31.9	160	33.8	163	34.7	173	37.8	182	41.2	189	43.8	198	47.4	215	54.1	232	61.0
92,850	3000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	167	38.8	170	40.3	180	44.3	187	47.4	195	50.2	202	54.2	218	61.4	234	68.8
99,040	3200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	177	46.5	186	51.1	194	54.5	201	58.2	209	62.0	223	69.4	238	76.9
105,230	3400	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	185	54.2	194	58.9	200	62.0	206	66.5	213	71.3	227	78.0	241	85.2

NOTE—The black faced type indicates the most efficient point of operation for each pressure.

Values Guaranteed for Standard Air: Temperature, 68°F.; Pressure, 29.92 inches; Weight, .07488 lbs. per cu. ft.

No. 6½ Type HV Fan, Single Width, Single Inlet

Volume C. F. M.	Outlet Velocity Feet per Min.	¼" S. P.		⅜" S. P.		½" S. P.		⅝" S. P.		¾" S. P.		⅞" S. P.		1" S. P.		1¼" S. P.		1½" S. P.		1¾" S. P.		2" S. P.		2½" S. P.		3" S. P.	
		R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.
36,350	1000	**68**	**2.73**	**79**	**3.45**	**89**	**4.55**	99	5.55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
39,985	1100	71	3.27	81	4.36	90	5.27	**99**	**6.35**	110	6.90	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
43,620	1200	73	4.18	85	5.27	91	6.18	100	6.73	**110**	**8.00**	118	8.72	127	10.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
47,255	1300	77	4.90	86	5.82	94	6.55	102	7.45	110	8.55	**118**	**9.82**	**126**	**10.8**	143	13.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
50,890	1400	80	5.82	88	6.72	96	7.45	103	8.25	111	9.81	118	10.8	126	11.8	142	14.5	156	17.3	.....	.....	.....	.....	.....	.....	.....	.....
54,525	1500	84	6.72	92	7.63	98	8.55	105	10.0	113	10.8	120	12.0	126	13.1	**140**	**15.6**	155	18.2	169	21.8	.....	.....	.....	.....	.....	.....
58,160	1600	87	7.45	95	8.90	102	10.0	109	10.9	115	12.4	121	13.6	127	14.5	140	17.3	**154**	**19.6**	168	22.9	181	26.5	.....	.....	.....	.....
61,795	1700	91	8.72	98	10.0	104	10.9	111	12.7	118	13.8	122	14.7	129	16.0	142	18.5	154	21.5	166	24.6	180	28.2	204	35.4	.....	.....
65,430	1800	94	10.0	102	11.5	108	12.7	113	13.8	120	15.3	126	16.4	131	17.4	143	20.7	154	23.3	**166**	**26.4**	179	30.0	203	37.5	224	45.4
69,065	1900	.....	.....	105	12.8	111	14.2	117	15.4	122	17.1	128	18.2	133	19.5	145	22.5	155	25.1	166	28.3	**178**	**31.8**	202	39.6	223	47.2
72,700	2000	.....	.....	108	14.4	114	15.8	120	17.5	126	18.9	131	20.7	136	21.8	146	24.5	156	28.0	166	30.9	179	34.5	199	41.8	221	49.1
79,970	2200	.....	.....	.....	.....	121	20.0	127	21.4	131	23.3	137	24.7	141	26.5	152	30.0	161	32.7	170	35.6	180	39.6	**199**	**46.5**	218	54.5
87,240	2400	.....	.....	.....	.....	129	24.6	133	26.5	138	28.4	144	30.3	148	31.8	157	35.2	165	37.4	174	41.8	182	45.0	199	52.3	**217**	**60.7**
94,510	2600	.....	.....	.....	.....	.....	.....	140	32.0	146	34.2	151	36.0	154	37.8	163	41.8	171	44.4	179	48.4	187	52.0	203	59.6	218	68.0
101,780	2800	.....	.....	.....	.....	.....	.....	.....	.....	153	40.6	157	42.9	162	44.0	170	48.7	177	51.6	184	56.3	192	60.4	206	68.4	221	76.4
109,050	3000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	164	49.8	168	51.6	177	57.2	182	60.7	190	65.4	197	69.2	210	77.2	224	85.8
116,320	3200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	172	58.2	175	60.5	183	65.4	189	69.8	197	74.5	204	79.3	215	87.3	229	97.2
123,590	3400	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	182	69.8	190	75.3	196	80.0	203	84.8	209	90.0	222	100.0	233	109.0

No. 6½ Type HV Fan, Single Width, Double Inlet

Volume C. F. M.	Outlet Velocity Feet per Min.	¼" S. P.		⅜" S. P.		½" S. P.		⅝" S. P.		¾" S. P.		⅞" S. P.		1" S. P.		1¼" S. P.		1½" S. P.		1¾" S. P.		2" S. P.		2½" S. P.		3" S. P.	
		R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.
36,350	1000	**65**	**2.65**	**76**	**3.27**	**86**	**4.18**	**97**	**5.10**	106	6.18	116	6.91	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
39,985	1100	67	2.91	78	4.00	87	4.91	97	5.81	**106**	**6.72**	115	7.46	124	8.73	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
43,620	1200	70	3.64	79	4.54	88	5.63	97	6.55	106	7.26	**115**	**8.36**	123	9.46	139	11.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
47,255	1300	73	4.54	82	5.45	89	6.47	98	7.27	106	8.18	115	9.27	**123**	**10.4**	138	12.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
50,890	1400	76	5.45	84	6.37	92	7.20	100	8.18	107	9.08	115	10.2	123	11.3	**137**	**13.6**	151	16.2	.....	.....	.....	.....	.....	.....	.....	.....
54,525	1500	79	6.36	87	7.27	94	8.00	102	9.08	109	10.0	116	11.3	123	12.3	137	14.7	150	17.3	163	20.2	.....	.....	.....	.....	.....	.....
58,160	1600	82	7.27	90	8.18	97	9.08	104	10.2	111	11.3	118	12.5	124	13.6	137	16.0	**150**	**18.5**	161	21.4	175	24.5	.....	.....	.....	.....
61,795	1700	86	8.18	93	9.27	100	10.4	106	11.4	112	12.7	119	13.8	124	15.1	137	17.5	150	20.2	**161**	**22.7**	174	26.2	.....	.....	.....	.....
65,430	1800	89	9.08	96	10.4	103	11.7	109	12.7	114	14.0	121	15.5	127	16.7	138	19.1	150	21.8	161	24.6	**173**	**27.8**	194	34.3	.....	.....
69,065	1900	93	10.4	98	12.0	106	13.4	111	14.4	117	15.6	123	17.1	129	18.5	139	20.9	151	23.6	161	26.3	173	29.8	193	36.4	216	44.4
72,700	2000	.....	.....	102	13.1	108	14.7	113	16.0	119	17.3	125	18.5	130	20.7	141	22.7	152	25.4	161	28.3	173	32.0	**193**	**38.9**	214	46.6
79,970	2200	.....	.....	110	17.1	115	18.2	119	19.6	125	21.3	130	22.7	135	24.3	144	27.1	154	30.4	164	33.3	174	36.4	193	43.7	**212**	**50.9**
87,240	2400	.....	.....	.....	.....	122	22.5	125	24.0	131	25.5	136	27.7	139	29.1	148	32.3	157	35.2	166	39.3	176	42.6	193	49.1	212	57.1
94,510	2600	.....	.....	.....	.....	.....	.....	132	29.1	137	31.2	142	32.7	145	33.8	154	37.7	162	41.5	170	44.7	178	49.1	196	56.4	212	64.4
101,780	2800	.....	.....	.....	.....	.....	.....	.....	.....	144	37.4	148	39.3	150	40.8	160	44.7	167	48.4	174	51.3	183	55.6	198	63.6	214	71.6
109,050	3000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	154	45.5	157	47.3	166	52.0	173	55.7	180	59.0	187	63.7	201	72.0	216	80.8
116,320	3200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	163	54.6	172	60.0	178	64.0	185	68.4	192	72.8	206	81.5	220	90.2
123,590	3400	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	171	63.6	178	69.1	183	72.8	190	78.2	197	83.6	210	91.8	223	100.0

NOTE—The black faced type indicates the most efficient point of operation for each pressure.

Values Guaranteed for Standard Air: Temperature, 68°F.; Pressure, 29.92 inches; Weight, .07488 lbs. per cu. ft.

No. 7 Type HV Fan, Single Width, Single Inlet

Volume C. F. M.	Outlet Velocity Feet per Min.	¼" S. P.		⅜" S. P.		½" S. P.		⅝" S. P.		¾" S. P.		⅞" S. P.		1" S. P.		1¼" S. P.		1½" S. P.		1¾" S. P.		2" S. P.		2½" S. P.		3" S. P.	
		R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.
42,150	1000	**63**	**3.16**	**74**	**4.02**	**83**	**5.28**	92	6.33	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
46,365	1100	66	3.80	75	5.07	84	6.12	**92**	**7.40**	102	8.02	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
50,580	1200	69	4.86	77	6.12	85	7.17	93	7.80	**102**	**9.30**	109	10.1	118	11.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
54,795	1300	72	5.70	80	6.75	87	7.60	95	8.65	102	9.90	**109**	**11.4**	**117**	**12.7**	132	15.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
59,010	1400	75	6.75	82	7.80	89	8.65	96	10.1	103	11.4	110	12.7	117	13.7	131	16.9	145	20.1	.....	.....	.....	.....	.....	.....	.....	.....
63,225	1500	78	7.81	85	8.87	92	9.90	98	11.6	105	12.7	111	13.9	117	15.2	**130**	**18.2**	144	21.1	157	25.3	.....	.....	.....	.....	.....	.....
67,440	1600	81	8.65	88	10.3	95	11.6	101	12.7	107	14.4	112	15.8	118	16.9	130	20.1	**143**	**22.8**	156	26.6	168	30.8	.....	.....	.....	.....
71,655	1700	84	10.1	91	11.6	97	12.7	103	14.8	109	16.1	114	17.1	120	18.6	131	21.5	143	24.9	155	28.5	167	32.7	189	41.2	.....	.....
75,870	1800	87	11.6	95	13.3	100	14.8	105	16.1	112	17.7	117	19.0	122	20.3	132	24.1	143	27.0	**155**	**30.6**	166	34.8	188	43.5	208	52.8
80,085	1900	.....	.....	98	14.8	103	16.5	108	18.0	114	19.8	119	21.1	124	22.6	135	26.1	144	29.1	155	32.9	**165**	**36.9**	187	46.0	207	55.0
84,300	2000	.....	.....	101	16.7	106	18.4	112	20.3	117	22.0	122	24.1	126	25.3	136	28.5	145	32.5	155	35.8	165	40.1	185	48.5	205	57.0
92,730	2200	.....	.....	.....	.....	112	23.2	118	24.9	122	27.0	127	28.7	132	30.8	141	34.8	149	38.0	157	41.3	167	46.0	**185**	**54.0**	205	63.3
101,160	2400	.....	.....	.....	.....	120	28.5	124	30.8	128	32.9	133	35.0	137	36.9	146	41.0	153	43.5	161	48.5	169	52.3	185	60.8	**203**	**70.5**
109,590	2600	.....	.....	.....	.....	.....	.....	131	37.1	136	39.6	140	41.8	143	44.0	151	48.6	158	51.5	166	56.2	173	60.5	188	69.2	203	79.0
118,020	2800	.....	.....	.....	.....	.....	.....	.....	.....	142	47.2	146	49.8	150	51.0	158	56.6	164	60.0	172	65.5	179	70.0	191	79.3	205	88.7
126,450	3000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	152	57.9	156	60.0	164	66.3	169	70.5	177	76.0	183	80.2	195	89.5	208	99.5
134,880	3200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	159	67.5	163	70.0	170	76.0	176	81.0	183	86.5	189	92.0	200	102.0	212	112.5
143,310	3400	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	169	81.0	177	87.5	182	93.0	188	98.5	194	104.0	206	116.0	216	126.5

No. 7 Type HV Fan, Single Width, Double Inlet

Volume C. F. M.	Outlet Velocity Feet per Min.	¼" S. P.		⅜" S. P.		½" S. P.		⅝" S. P.		¾" S. P.		⅞" S. P.		1" S. P.		1¼" S. P.		1½" S. P.		1¾" S. P.		2" S. P.		2½" S. P.		3" S. P.	
		R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.
42,150	1000	**61**	**3.08**	**71**	**3.79**	**80**	**4.85**	**90**	**5.90**	99	7.16	108	8.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
46,365	1100	63	3.37	72	4.63	81	5.69	90	6.74	**99**	**7.80**	107	8.52	115	10.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
50,580	1200	65	4.22	74	5.26	82	6.53	90	7.59	99	8.43	**107**	**9.68**	114	11.0	129	13.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
54,795	1300	68	5.27	76	6.32	83	7.41	91	8.44	99	9.48	107	10.8	**114**	**11.9**	128	14.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
59,010	1400	71	6.32	78	7.38	85	8.35	92	9.48	100	10.5	107	11.8	114	13.1	**127**	**15.8**	140	18.7	.....	.....	.....	.....	.....	.....	.....	.....
63,225	1500	74	7.38	81	8.45	87	9.27	95	10.5	101	11.6	108	13.1	114	14.3	127	17.1	140	20.0	151	23.4	.....	.....	.....	.....	.....	.....
67,440	1600	76	8.43	83	9.48	90	10.5	97	11.8	103	13.0	109	14.5	116	15.8	127	18.5	**139**	**21.5**	149	24.8	163	28.4	.....	.....	.....	.....
71,655	1700	80	9.48	86	10.8	92	11.9	99	13.3	104	14.7	110	16.0	116	17.5	127	20.5	139	23.4	**149**	**26.3**	162	30.6	.....	.....	.....	.....
75,870	1800	83	10.5	89	11.9	95	13.7	101	14.7	106	16.2	112	17.9	118	19.4	128	22.1	139	25.3	149	28.4	**160**	**32.2**	181	39.7	.....	.....
80,085	1900	86	11.9	91	13.9	97	15.6	103	16.6	108	18.1	114	19.8	120	21.5	129	24.2	140	27.4	149	30.5	160	34.5	180	42.2	200	51.4
84,300	2000	.....	.....	95	15.2	101	17.1	105	18.6	110	20.0	116	21.5	121	23.6	131	25.9	141	29.5	149	32.8	160	37.0	**180**	**45.1**	198	54.0
92,730	2200	.....	.....	102	19.8	107	21.1	110	22.7	116	24.6	121	26.4	125	28.2	133	31.4	143	35.0	152	38.5	161	42.2	180	50.5	**196**	**59.0**
101,160	2400	.....	.....	.....	.....	113	23.1	117	27.8	122	29.5	126	32.0	130	33.7	138	37.5	147	40.9	155	45.5	163	49.3	180	56.9	196	66.2
109,590	2600	.....	.....	.....	.....	.....	.....	123	33.7	127	36.7	132	37.9	135	39.2	143	43.8	151	48.1	158	51.8	167	56.9	182	65.3	196	74.6
118,020	2800	.....	.....	.....	.....	.....	.....	.....	.....	134	43.4	137	45.5	140	47.2	148	51.4	155	56.5	162	59.4	170	64.5	184	73.7	198	83.1
126,450	3000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	143	52.6	146	54.8	154	60.2	160	64.5	167	68.2	174	73.7	187	83.5	201	93.6
134,880	3200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	151	63.2	160	69.6	166	74.1	172	76.7	179	84.3	191	94.5	204	104.5
143,310	3400	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	159	73.7	166	80.0	171	84.3	176	90.5	183	97.0	195	106.2	207	115.8

NOTE—The black faced type indicates the most efficient point of operation for each pressure.

Values Guaranteed for Standard Air: Temperature, 68°F.; Pressure, 29.92 inches; Weight, .07488 lbs. per cu. ft.

No. 7½ Type HV Fan, Single Width, Single Inlet

Volume C. F. M.	Outlet Velocity Feet per Min.	¼" S. P.		⅜" S. P.		½" S. P.		⅝" S. P.		¾" S. P.		⅞" S. P.		1" S. P.		1¼" S. P.		1½" S. P.		1¾" S. P.		2" S. P.		2½" S. P.		3" S. P.	
		R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.
48,400	1000	59	**3.64**	69	**4.60**	78	**6.07**	86	7.27	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
53,240	1100	62	4.37	70	5.82	79	7.03	**86**	**8.48**	95	9.20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
58,080	1200	64	5.58	72	7.03	79	8.23	87	8.96	**95**	**10.7**	102	11.7	110	13.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
62,920	1300	67	6.54	75	7.75	81	8.72	88	9.90	95	11.4	**102**	**13.1**	**109**	**14.6**	124	18.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
67,760	1400	70	7.75	77	8.97	83	9.90	90	11.6	96	13.1	102	14.6	109	15.8	123	19.4	135	23.0	.....	.....	.....	.....	.....	.....	.....	.....
72,600	1500	73	8.97	80	10.2	85	11.4	91	13.4	98	14.6	104	16.0	109	17.5	**122**	**20.9**	134	24.3	146	29.1	.....	.....	.....	.....	.....	.....
77,440	1600	76	9.90	83	11.9	88	13.3	94	14.6	100	16.5	105	18.2	110	19.4	122	23.0	**133**	**26.2**	145	30.5	157	35.4	.....	.....	.....	.....
82,280	1700	79	11.6	86	13.3	90	14.6	96	17.0	102	18.4	106	19.7	112	21.3	122	24.7	133	28.6	144	32.7	156	37.6	177	47.3	.....	.....
87,120	1800	82	13.4	89	15.3	93	17.0	98	18.4	104	20.4	109	21.8	114	23.3	123	27.6	133	31.0	**144**	**35.2**	155	40.0	175	50.0	194	60.6
91,960	1900	.....	.....	91	17.0	96	18.9	101	20.8	106	22.8	111	24.3	116	26.0	126	30.1	134	33.5	144	37.8	**154**	**42.4**	174	52.9	193	63.0
96,800	2000	.....	.....	94	19.1	99	21.1	104	23.3	109	25.2	114	27.6	118	29.1	127	32.7	135	37.3	144	41.2	155	46.0	173	55.7	191	65.4
106,480	2200	.....	.....	.....	.....	105	26.7	110	28.6	114	31.0	119	33.0	122	35.4	131	40.0	139	43.7	147	47.5	156	52.9	**173**	**62.0**	189	72.7
116,160	2400	.....	.....	.....	.....	112	32.7	113	35.4	120	37.8	125	40.3	128	42.5	136	47.0	143	50.0	151	55.7	158	60.1	173	69.9	**189**	**81.0**
125,840	2600	.....	.....	.....	.....	.....	.....	122	42.7	127	45.6	130	48.0	133	50.5	141	55.7	148	59.1	155	64.5	162	69.3	175	79.5	189	90.7
135,520	2800	.....	.....	.....	.....	.....	.....	.....	.....	132	54.3	136	57.2	140	58.7	147	65.0	153	68.8	160	75.1	167	80.5	178	91.1	191	102.0
145,200	3000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	142	66.4	145	68.8	153	76.0	158	81.0	165	87.2	171	92.0	182	103.0	194	114.5
154,880	3200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	148	77.5	152	80.5	159	87.2	163	93.0	171	99.5	176	106.0	186	116.3	198	129.5
164,560	3400	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	158	93.0	165	101.0	170	107.0	175	113.0	182	120.0	**192**	**133.5**	202	145.5

No. 7½ Type HV Fan, Single Width, Double Inlet

Volume C. F. M.	Outlet Velocity Feet per Min.	¼" S. P.		⅜" S. P.		½" S. P.		⅝" S. P.		¾" S. P.		⅞" S. P.		1" S. P.		1¼" S. P.		1½" S. P.		1¾" S. P.		2" S. P.		2½" S. P.		3" S. P	
		R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P
48,400	1000	57	**3.53**	66	**4.37**	75	**5.58**	85	**6.80**	92	8.25	101	9.22	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
53,240	1100	59	3.87	67	5.35	76	6.55	85	7.75	**92**	**8.97**	100	9.95	108	11.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
58,080	1200	61	4.84	69	6.06	77	7.52	85	8.73	92	9.70	**100**	**11.2**	107	12.6	121	15.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
62,920	1300	64	6.07	71	7.28	78	8.63	85	9.70	92	10.9	100	12.4	**107**	**13.8**	120	16.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
67,760	1400	66	7.28	73	8.50	80	9.60	87	10.9	93	12.1	100	13.6	107	15.0	**119**	**18.2**	131	21.6	.....	.....	.....	.....	.....	.....	.....	.....
72,600	1500	69	8.50	75	9.70	82	10.7	88	12.1	94	13.3	101	15.0	107	16.5	119	19.6	130	23.0	141	26.9	.....	.....	.....	.....	.....	.....
77,440	1600	71	9.70	78	10.9	85	12.1	90	13.6	96	15.0	102	16.7	108	18.2	119	21.3	**130**	**24.8**	140	28.6	152	32.7	.....	.....	.....	.....
82,280	1700	75	10.9	81	12.7	87	13.8	92	15.3	97	17.0	103	18.4	108	20.4	119	23.3	130	26.9	**140**	**30.3**	151	34.9	.....	.....	.....	.....
87,120	1800	78	12.1	83	13.8	89	15.8	94	17.0	99	18.7	104	20.6	110	22.3	120	25.4	130	29.1	140	32.7	**150**	**37.0**	169	45.8	.....	.....
91,960	1900	81	13.8	85	16.0	92	17.9	97	19.2	101	20.8	106	22.8	112	24.7	121	27.8	131	31.5	140	35.1	150	39.7	168	48.5	189	59.0
96,800	2000	.....	.....	88	17.4	94	19.6	98	21.3	103	23.0	109	24.7	113	27.1	122	29.8	132	33.9	140	37.8	150	42.7	**167**	**52.0**	187	62.0
106,480	2200	.....	.....	95	22.8	100	24.2	103	26.1	109	28.4	113	30.3	117	32.5	125	36.1	134	40.2	142	44.3	151	48.5	167	58.2	**185**	**68.0**
116,160	2400	.....	.....	.....	.....	106	30.0	109	32.0	114	33.9	118	36.8	121	38.8	129	43.1	137	47.0	144	52.4	152	56.7	167	65.5	185	76.0
125,840	2600	.....	.....	.....	.....	.....	.....	115	38.8	119	41.7	123	43.6	126	45.0	133	50.5	141	55.3	148	59.7	155	65.5	169	75.2	185	86.0
135,520	2800	.....	.....	.....	.....	.....	.....	.....	.....	125	50.0	128	52.4	131	54.5	138	59.2	145	64.5	151	68.3	158	74.2	172	85.0	186	95.5
145,200	3000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	133	60.6	136	63.0	144	69.4	150	74.2	156	78.5	162	85.0	175	96.0	188	108.0
154,880	3200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	141	72.8	149	80.0	155	85.3	161	91.0	167	97.0	179	109.0	191	120.0
164,560	3400	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	148	85.0	155	92.0	160	97.0	165	104.0	171	112.0	182	122.0	193	133.0

NOTE—The black faced type indicates the most efficient point of operation for each pressure.

Values Guaranteed for Standard Air: Temperature, 68°F.; Pressure, 29.92 inches; Weight, .07488 lbs. per cu. ft.

No. 8 Type HV Fan, Single Width, Single Inlet

Volume C. F. M.	Outlet Velocity Feet per Min.	¼" S. P.		⅜" S. P.		½" S. P.		⅝" S. P.		¾" S. P.		⅞" S. P.		1" S. P.		1¼" S. P.		1½" S. P.		1¾" S. P.		2" S. P.		2½" S. P.		3" S. P.	
		R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.
55,000	1000	**55**	**4.13**	**64**	**5.23**	**73**	**6.88**	81	8.25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
60,500	1100	58	4.95	65	6.60	74	7.98	**81**	**9.62**	89	10.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
66,000	1200	60	6.33	67	7.98	75	9.35	82	10.2	**89**	**12.1**	96	13.2	103	15.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
71,500	1300	63	7.43	70	8.80	76	9.90	83	11.3	89	12.9	**96**	**14.8**	**102**	**16.5**	116	20.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
77,000	1400	65	8.80	72	10.2	78	11.3	84	13.2	90	14.8	96	16.5	102	17.9	115	22.0	127	26.1	.....	.....	.....	.....	.....	.....	.....	.....
82,500	1500	68	10.2	75	11.6	80	12.9	86	15.1	92	16.5	98	18.2	102	19.8	**114**	**23.7**	126	27.5	137	33.0	.....	.....	.....	.....	.....	.....
88,000	1600	71	11.3	77	13.5	83	15.1	88	16.5	94	18.7	99	20.6	103	22.0	114	26.1	**125**	**29.7**	136	34.6	147	40.2	.....	.....	.....	.....
93,500	1700	74	13.2	80	15.1	85	16.5	90	19.3	96	20.9	100	22.3	105	24.2	115	28.0	125	32.4	132	37.1	146	42.6	166	53.7	.....	.....
99,000	1800	76	15.1	83	17.3	88	19.3	92	20.9	97	23.1	102	24.7	107	26.4	116	31.3	125	35.2	**135**	**39.8**	145	45.4	165	56.7	182	68.8
104,500	1900	.....	.....	85	19.2	90	21.5	95	23.4	99	25.9	104	27.3	109	29.4	118	34.1	126	38.0	135	42.9	**144**	**48.1**	164	60.0	181	71.7
110,000	2000	.....	.....	88	21.7	93	23.9	98	26.4	102	28.6	107	31.4	111	33.0	119	37.1	127	42.3	135	46.8	145	52.3	162	63.3	179	74.2
121,000	2200	.....	.....	.....	.....	98	30.2	103	32.4	107	35.2	111	37.4	115	40.2	123	45.3	130	49.5	138	53.9	146	60.0	**162**	**70.5**	177	82.5
132,000	2400	.....	.....	.....	.....	105	37.1	108	40.2	112	42.9	117	45.7	120	48.2	128	53.3	134	56.7	141	63.2	148	68.2	162	79.3	**177**	**92.0**
143,000	2600	.....	.....	.....	.....	.....	.....	114	48.4	119	51.7	122	54.5	125	57.3	133	63.2	189	67.1	145	73.2	152	78.8	165	90.3	177	103.0
154,000	2800	.....	.....	.....	.....	.....	.....	.....	.....	124	61.7	128	65.0	131	66.6	138	73.8	143	71.7	150	85.3	156	91.3	167	103.5	179	115.5
165,000	3000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	133	75.3	136	78.1	144	86.5	148	92.0	155	99.0	160	105.0	171	116.5	182	130.0
176,000	3200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	137	99.0	142	91.3	149	99.0	153	106.0	160	113.0	165	120.0	175	132.0	186	147.0
187,000	3400	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	148	105.5	155	114.0	159	121.0	165	128.0	170	136.0	180	151.0	190	165.0

No. 8 Type HV Fan, Single Width, Double Inlet

Volume C. F. M.	Outlet Velocity Feet per Min.	¼" S. P.		⅜" S. P.		½" S. P.		⅝" S. P.		¾" S. P.		⅞" S. P.		1" S. P.		1¼" S. P.		1½" S. P.		1¾" S. P.		2" S. P.		2½" S. P.		3" S. P.	
		R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.
55,000	1000	**53**	**4.02**	**62**	**4.95**	**70**	**6.33**	**79**	**7.70**	86	9.35	94	10.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
60,500	1100	55	4.40	63	6.03	71	7.43	79	8.82	**86**	**10.2**	93	11.3	101	13.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
66,000	1200	57	5.50	64	6.88	72	8.53	79	9.90	86	11.0	**93**	**12.7**	100	14.3	113	17.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
71,500	1300	60	6.89	66	8.25	73	9.80	80	11.0	86	12.3	93	14.0	**100**	**15.7**	112	19.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
77,000	1400	62	8.25	68	9.63	75	10.9	81	12.3	87	13.7	93	15.4	100	17.1	**111**	**20.6**	122	24.5	.....	.....	.....	.....	.....	.....	.....	.....
82,500	1500	64	9.62	71	11.0	76	12.0	83	13.7	88	15.1	94	17.1	100	18.7	111	22.3	122	26.2	132	30.5	.....	.....	.....	.....	.....	.....
88,000	1600	66	11.0	73	12.3	79	13.7	85	15.4	90	17.1	95	19.0	101	20.6	111	24.2	**121**	**28.1**	131	32.5	142	37.2	.....	.....	.....	.....
93,500	1700	70	12.3	75	14.0	81	15.7	86	17.3	91	19.2	97	20.9	101	22.8	111	26.4	121	30.5	**131**	**34.4**	141	39.6	.....	.....	.....	.....
99,000	1800	72	13.8	78	15.7	83	17.9	88	19.3	93	21.2	98	23.4	103	25.3	112	28.9	121	33.0	131	37.1	**140**	**42.1**	158	52.0	.....	.....
104,500	1900	75	15.7	80	18.1	86	20.4	90	21.7	95	23.7	100	25.9	105	28.0	113	31.6	122	35.8	131	39.9	140	45.1	158	55.0	175	67.2
110,000	2000	.....	.....	82	19.8	88	22.3	92	24.2	97	26.2	102	28.1	106	30.8	114	33.8	123	38.5	131	42.9	140	48.4	**157**	**58.9**	174	70.5
121,000	2200	.....	.....	89	25.8	94	27.5	96	29.7	102	32.2	105	34.4	108	36.8	117	41.0	125	45.6	133	50.3	141	55.0	157	66.0	**172**	**77.2**
132,000	2400	.....	.....	.....	.....	99	34.1	102	36.3	107	38.5	110	41.8	113	44.0	121	49.0	128	53.4	135	59.4	143	64.4	157	74.3	172	86.5
143,000	2600	.....	.....	.....	.....	.....	.....	108	44.0	111	47.4	115	49.5	118	51.2	125	57.3	132	62.8	138	67.7	145	74.3	159	85.3	172	97.5
154,000	2800	.....	.....	.....	.....	.....	.....	.....	.....	117	56.7	120	59.4	122	61.6	130	67.2	136	73.2	142	77.7	148	84.2	161	96.3	173	108.4
165,000	3000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	125	68.7	128	71.5	135	78.7	140	84.2	146	89.2	151	96.3	164	109.0	176	122.1
176,000	3200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	132	82.5	140	90.8	145	96.8	151	103.5	156	110.0	167	123.2	178	136.5
187,000	3400	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	139	96.3	145	104.5	150	110.0	155	118.3	160	126.5	170	138.6	181	151.3

NOTE—The black faced type indicates the most efficient point of operation for each pressure.

Values Guaranteed for Standard Air: Temperature, 68°F.; Pressure, 29.92 inches; Weight, .07488 lbs. per cu. ft.

No. 8½ Type HV Fan, Single Width, Single Inlet

Volume C. F. M.	Outlet Velocity Feet per Min.	¼" S. P.		⅜" S. P.		½" S. P.		⅝" S. P.		¾" S. P.		⅞" S. P.		1" S. P.		1¼" S. P.		1½" S. P.		1¾" S. P.		2" S. P.		2½" S. P.		3" S. P.	
		R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.
62,100	1000	52	**4.65**	**61**	**5.90**	**68**	**7.25**	76	9.32																		
68,310	1100	54	5.66	62	7.45	69	9.00	**76**	**10.9**	84	11.8																
74,520	1200	56	7.15	63	9.00	70	10.6	77	11.5	**84**	**13.7**	90	14.9	97	17.1												
80,730	1300	59	8.40	66	10.0	72	11.2	78	12.7	84	14.6	**90**	**16.8**	**96**	**18.6**	109	23.3										
86,940	1400	61	10.0	68	11.5	73	12.7	79	14.9	85	16.8	90	18.6	96	20.2	108	24.8	119	29.5								
93,150	1500	64	11.5	70	13.1	75	14.6	80	17.1	87	18.6	92	20.5	96	22.4	**107**	**26.7**	118	31.1	129	37.2						
99,360	1600	67	12.7	73	15.2	78	17.1	83	18.6	88	21.1	93	23.3	97	24.8	107	29.5	**118**	**33.5**	128	39.1	139	45.3				
105,570	1700	69	14.9	75	17.1	80	18.6	85	21.7	90	23.6	94	25.2	99	27.3	108	31.7	118	36.6	127	41.9	138	48.1	156	60.6		
111,780	1800	72	17.1	78	19.6	82	21.7	87	23.6	92	26.1	96	28.0	101	29.8	109	35.4	118	39.7	**127**	**45.0**	137	51.3	155	64.0	172	77.7
117,990	1900			80	21.7	85	24.2	89	26.4	94	29.2	98	31.1	102	33.2	111	38.5	119	42.8	127	48.4	**136**	**54.3**	154	67.8	171	80.8
124,200	2000			83	24.5	88	27.0	92	29.8	96	32.3	101	35.2	104	37.3	112	41.9	120	47.8	127	52.8	137	59.0	153	71.5	169	84.0
136,620	2200					93	34.2	97	36.6	101	39.8	105	42.2	108	45.3	116	51.2	123	55.9	130	60.9	138	67.8	**153**	**79.5**	167	93.2
149,040	2400					99	41.9	102	45.3	106	48.5	110	51.5	113	54.3	120	60.2	127	64.0	133	71.5	139	77.0	153	89.5	**166**	**104.0**
161,460	2600							107	54.6	112	58.4	115	61.5	118	64.7	125	71.5	131	75.7	137	82.5	143	88.8	155	102.0	167	116.0
173,880	2800									117	69.5	120	73.3	124	75.0	139	83.2	135	88.2	141	96.3	147	103.0	158	117.0	169	130.5
186,300	3000											126	85.0	128	88.3	135	97.5	139	104.0	146	111.9	151	118.0	161	132.0	172	146.5
198,720	3200											131	99.5	134	103.0	140	111.7	145	119.0	151	127.5	156	135.5	165	149.0	175	166.0
211,140	3400													139	119.2	146	128.5	150	136.5	155	144.8	160	153.5	170	171.0	178	186.5

No. 8½ Type HV Fan, Single Width, Double Inlet

Volume C. F. M.	Outlet Velocity Feet per Min.	¼" S. P.		⅜" S. P.		½" S. P.		⅝" S. P.		¾" S. P.		⅞" S. P.		1" S. P.		1¼" S. P.		1½" S. P.		1¾" S. P.		2" S. P.		2½" S. P.		3" S. P.	
		R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.
62,100	1000	**50**	**4.53**	**58**	**5.60**	**66**	**7.15**	**74**	**8.70**	81	10.6	89	11.8														
68,310	1100	52	4.96	59	6.83	67	8.38	74	9.95	**81**	**11.5**	88	12.6	95	14.9												
74,520	1200	54	6.21	61	7.77	68	9.62	74	11.2	81	12.4	**88**	**14.3**	94	16.1	106	19.9										
80,730	1300	56	7.78	62	9.32	69	11.0	75	12.4	81	14.0	88	15.8	**94**	**17.7**	105	21.4										
86,940	1400	58	9.32	64	10.9	70	12.3	76	14.0	82	15.5	88	17.4	94	19.2	**104**	**23.3**	115	27.6								
93,150	1500	61	10.9	67	12.4	72	13.7	78	15.5	83	17.1	89	19.2	94	21.1	104	25.1	115	29.0	125	34.5						
99,360	1600	62	12.4	69	14.0	74	15.5	80	17.4	85	19.2	90	21.4	95	23.3	104	27.3	**114**	**31.7**	124	36.6	134	41.9				
105,570	1700	66	14.0	71	15.8	76	17.7	81	19.5	86	21.7	91	23.6	95	25.8	104	29.8	114	34.5	**124**	**38.6**	133	44.7				
111,780	1800	68	15.5	73	17.7	79	20.5	83	21.8	87	23.9	93	26.4	97	28.6	105	32.6	114	37.3	124	41.9	**132**	**47.5**	149	58.6		
117,990	1900	71	17.7	75	20.5	81	23.0	85	24.5	89	26.7	94	29.2	98	31.7	106	35.7	115	40.4	124	45.0	132	50.9	148	62.1	165	75.7
124,200	2000			78	22.3	83	25.1	87	27.3	91	29.5	96	31.7	100	34.8	108	38.2	116	43.4	124	48.4	132	54.6	**147**	**66.4**	163	79.5
136,620	2200			84	29.2	88	31.0	91	33.5	96	36.3	99	38.8	103	41.6	110	46.3	118	51.5	125	56.8	133	62.1	147	74.5	**162**	**87.0**
149,040	2400					94	38.5	96	41.0	101	43.5	104	47.2	107	49.6	114	55.2	120	60.2	127	67.1	134	72.6	147	83.8	162	97.5
161,460	2600							101	49.7	105	53.4	109	55.9	111	57.8	118	64.6	125	70.8	130	76.4	137	83.8	149	96.2	162	110.0
173,880	2800									110	64.0	113	67.1	115	69.5	122	75.7	128	82.6	133	87.5	139	95.6	152	108.7	163	122.3
186,300	3000											118	77.7	120	80.6	127	88.8	132	95.0	138	101.2	143	108.7	154	123.0	165	137.8
198,720	3200													125	93.2	131	102.5	137	109.3	141	116.8	147	124.1	157	139.0	168	154.0
211,140	3400													131	108.6	137	118.0	140	124.2	145	133.4	150	142.7	160	156.5	171	170.7

NOTE—The black faced type indicates the most efficient point of operation for each pressure.

Values Guaranteed for Standard Air: Temperature, 68°F.; Pressure, 29.92 inches; Weight, .07488 lbs. per cu. ft.

No. 9 Type HV Fan, Single Width, Single Inlet

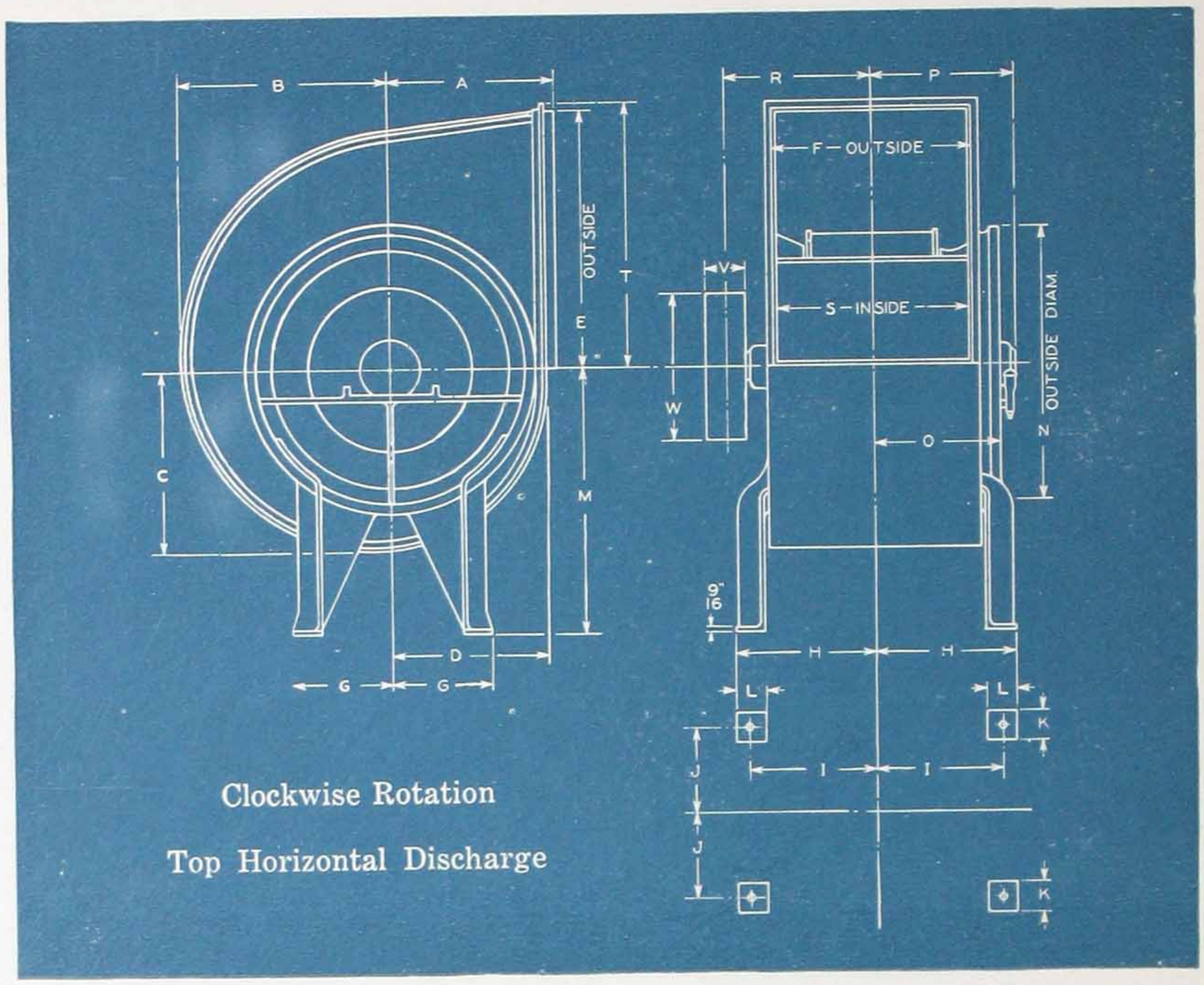
Volume C. F. M.	Outlet Velocity Feet per Min.	¼" S. P.		⅜" S. P.		½" S. P.		⅝" S. P.		¾" S. P.		⅞" S. P.		1" S. P.		1¼" S. P.		1½" S. P.		1¾" S. P.		2" S. P.		2½" S. P.		3" S. P.	
		R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.
69,600	1000	**49**	**5.23**	**57**	**6.62**	**65**	**8.70**	72	10.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
76,560	1100	51	6.27	58	8.35	65	10.1	**72**	**12.2**	79	13.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
83,520	1200	53	8.00	60	10.1	66	11.9	73	12.9	**79**	**15.3**	85	16.7	92	19.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
90,480	1300	56	9.40	62	11.2	68	12.5	74	14.3	79	16.4	**85**	**18.8**	**91**	**20.9**	103	26.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
97,440	1400	58	11.10	64	12.9	69	14.3	75	16.7	80	18.8	85	20.9	91	22.6	102	27.8	113	33.1	.....	.....	.....	.....	.....	.....	.....	.....
104,400	1500	61	12.9	66	14.6	71	16.4	76	19.2	82	20.9	87	23.0	91	25.1	**102**	**30.0**	112	34.8	122	41.8	.....	.....	.....	.....	.....	.....
111,360	1600	63	14.3	69	17.1	74	19.2	78	20.9	84	23.7	88	26.1	92	27.8	102	33.1	**111**	**37.6**	121	43.9	131	50.8	.....	.....	.....	.....
118,320	1700	65	16.7	71	19.2	75	20.9	80	24.4	85	26.5	88	28.2	93	30.6	102	35.5	111	41.1	120	47.0	130	54.0	147	68.0	.....	.....
125,280	1800	68	19.2	74	22.0	78	24.3	82	26.5	87	29.2	91	31.3	95	33.4	103	39.7	111	44.5	**120**	**50.5**	129	57.5	146	71.7	162	87.0
132,240	1900	.....	.....	76	24.4	80	27.1	84	29.6	88	32.7	92	34.8	97	37.3	105	43.2	112	48.0	120	54.3	**128**	**61.0**	146	75.9	161	**90.5**
139,200	2000	.....	.....	78	27.5	83	30.3	87	33.4	91	36.2	95	39.7	98	41.8	106	47.0	113	53.7	120	59.2	129	66.2	144	80.0	159	94.0
153,120	2200	.....	.....	.....	.....	87	38.3	91	41.1	95	44.5	99	47.3	102	50.8	110	57.5	116	62.7	123	68.1	130	76.0	**144**	**89.0**	158	104.5
167,040	2400	.....	.....	.....	.....	93	47.0	96	50.9	100	54.3	104	57.8	107	61.0	114	67.5	119	71.8	126	80.0	131	86.4	144	100.0	**157**	**116.5**
180,960	2600	.....	.....	.....	.....	.....	.....	102	61.3	105	65.5	109	69.0	111	72.4	118	80.0	123	85.0	129	92.7	135	100.0	146	114.0	158	130.5
194,880	2800	.....	.....	.....	.....	.....	.....	.....	.....	.....	78.0	114	82.2	117	84.2	123	93.4	128	98.8	133	108.0	139	115.5	149	131.0	159	146.0
208,800	3000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	119	95.5	121	98.8	128	109.5	132	116.0	137	125.5	142	132.5	152	148.0	162	164.0
222,720	3200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	124	111.3	127	115.5	132	126.0	136	134.0	142	143.0	147	152.0	155	167.0	165	186.0
236,640	3400	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	132	134.0	137	144.0	141	153.0	146	163.0	151	172.0	160	192.0	168	209.0

No. 9 Type HV Fan, Single Width, Double Inlet

Volume C. F. M.	Outlet Velocity F et per Min.	¼" S. P.		⅜" S. P.		½" S. P.		⅝" S. P.		¾" S. P.		⅞" S. P.		1" S. P.		1¼" S. P.		1½" S. P.		1¾" S. P.		2" S. P.		2½" S. P.		3" S. P.	
		R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P.	R. P. M.	B. H. P	R. P. M.	B. H. P	R. P. M.	B. H. P.	R. P. M.	B. H. P.
69,600	1000	**47**	**5.08**	**55**	**6.27**	**62**	**8.00**	**70**	**9.65**	77	11.8	84	13.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
76,560	1100	49	5.56	56	7.65	63	9.41	70	11.2	**77**	**12.9**	83	14.3	90	16.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
83,520	1200	51	6.96	57	8.70	64	10.8	70	12.5	77	13.9	**83**	**16.0**	89	18.0	101	22.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
90,480	1300	53	8.70	59	10.4	65	12.4	71	13.9	77	15.7	83	17.8	**89**	**19.8**	100	24.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
97,440	1400	55	10.4	61	12.1	66	13.8	72	15.7	78	17.4	83	19.5	89	21.6	**99**	**26.1**	109	31.0	.....	.....	.....	.....	.....	.....	.....	.....
104,400	1500	57	12.1	63	13.9	68	15.3	73	17.4	79	19.1	84	21.6	89	23.7	99	28.2	109	33.0	118	38.7	.....	.....	.....	.....	.....	.....
111,360	1600	59	13.9	65	15.7	70	17.4	75	19.5	80	21.6	85	24.0	90	26.1	99	30.7	**108**	**35.5**	117	41.1	127	47.0	.....	.....	.....	.....
118,320	1700	62	15.7	67	17.8	72	19.8	77	22.0	81	24.4	86	26.5	90	28.9	99	33.4	108	38.7	**117**	**43.5**	126	50.2	.....	.....	.....	.....
125,280	1800	64	17.4	69	19.8	74	22.6	79	24.4	83	26.8	87	29.6	92	32.0	100	36.6	108	41.8	117	47.1	**125**	**53.3**	141	65.8	.....	.....
132,240	1900	67	19.5	71	23.0	76	25.8	80	27.5	84	30.0	89	32.7	93	35.5	101	40.0	109	45.3	117	50.5	125	57.1	140	69.6	156	84.9
139,200	2000	.....	.....	74	25.0	79	28.3	82	30.6	86	33.0	91	35.5	94	39.0	102	42.8	110	48.7	117	54.3	125	61.3	**140**	**74.5**	155	89.0
153,120	2200	.....	.....	79	32.7	83	34.8	86	37.6	91	40.7	94	43.5	98	46.6	104	51.8	111	57.8	118	63.7	126	69.6	140	83.5	**153**	**97.5**
167,040	2400	.....	.....	.....	.....	88	43.2	91	46.0	95	48.8	98	53.0	101	55.8	107	62.0	114	68.6	119	75.2	127	81.4	140	94.0	153	109.4
180,960	2600	.....	.....	.....	.....	.....	.....	96	55.6	99	60.0	102	62.6	105	64.8	111	72.4	118	79.2	122	85.6	129	94.0	141	107.8	153	123.3
194,880	2800	.....	.....	.....	.....	.....	.....	.....	.....	104	71.7	107	75.2	109	78.0	115	85.0	120	92.6	126	98.0	132	106.5	143	121.8	154	137.1
208,800	3000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	111	87.0	114	90.5	119	99.5	125	106.5	130	112.6	135	121.8	145	137.8	156	154.6
222,720	3200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	118	104.5	124	115.0	129	122.5	134	131.1	139	139.2	149	156.0	159	172.6
236,640	3400	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	124	121.8	129	132.3	133	139.2	137	149.8	142	160.0	152	175.5	161	191.6

NOTE—The black faced type indicates the most efficient point of operation for each pressure.

Values Guaranteed for Standard Air: Temperature, 68°F.; Pressure, 29.92 inches; Weight, .07488 lbs. per cu. ft.



Clockwise Rotation

Top Horizontal Discharge

Type HV Fan—Sizes 1½ to 3—Arrangement A
Standard Single Width

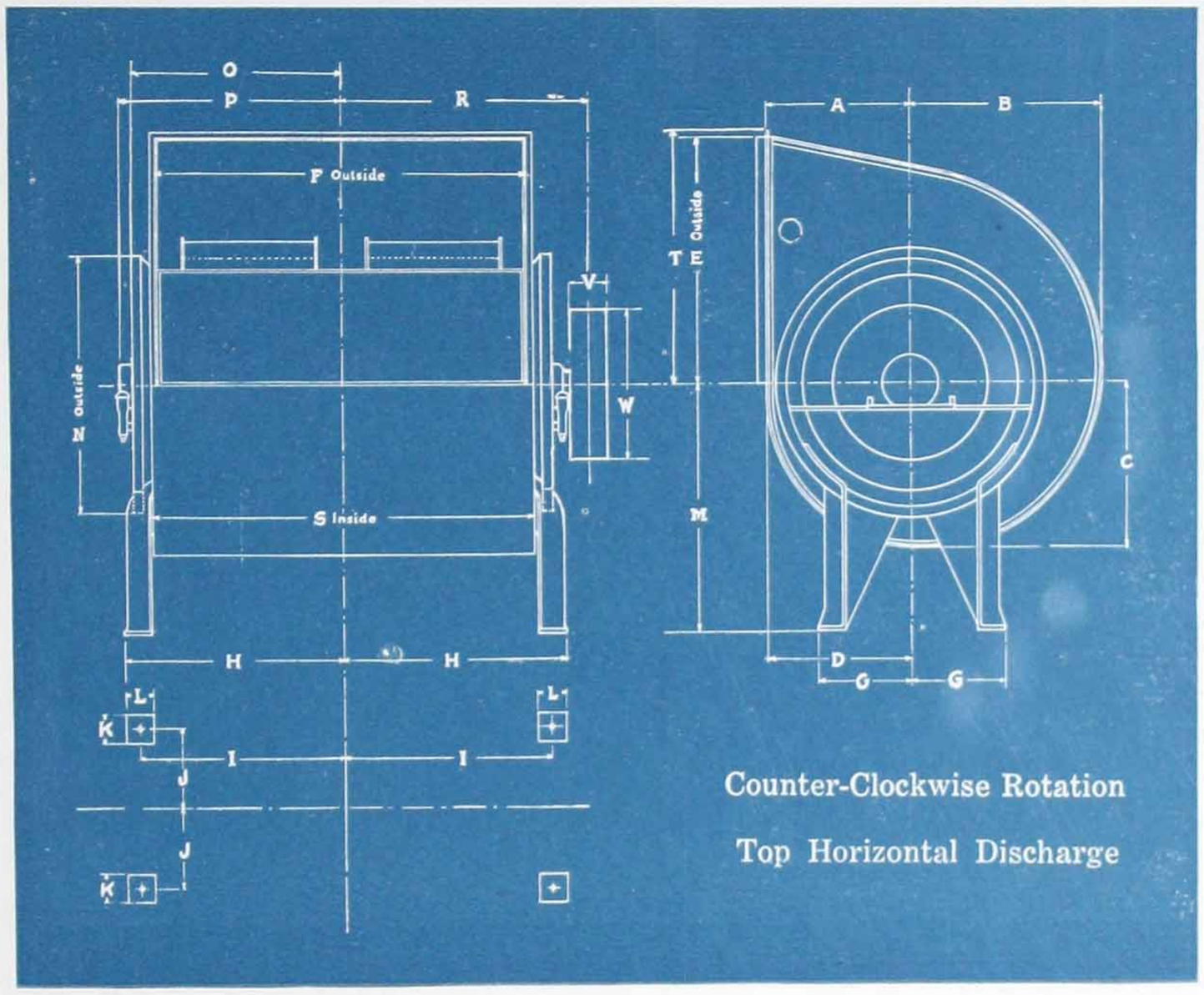
Dimension Table

Dimensions are in Inches

Fan Size	A	B	C	D	E	F	G	H	I	J	K	L	M	*N	O
1½	14 1/16	16 5/8	14 9/16	12 9/16	19 1/16	14 13/16	7½	11¼	10	6¼	2½	2½	20½	20¼	9 15/16
1¾	15 7/8	19 1/16	16¾	14⅜	22¼	17 5/16	8¾	12⅞	11 7/16	7 5/16	2⅞	2⅞	23½	23¾	11 7/16
2	17 5/8	21½	18 13/16	16⅛	25¼	19 11/16	10	14 7/16	12 13/16	8⅜	3¼	3¼	26¾	27	12 9/16
2¼	19 7/16	24 1/16	21	17 15/16	28⅝	22⅛	11¼	16	14⅜	9 7/16	3⅝	3⅝	30	30⅝	14 1/16
2½	21 3/16	26 7/16	23 1/16	19 11/16	31¾	24 9/16	12½	17⅝	15⅞	10½	4	4	33	34	16¼
3	24 7/16	31	27	22 5/16	38⅛	29 7/16	15	20 9/16	18 7/16	12¾	4½	4½	39½	40¾	18¾

*Diameter of Pipe to fit over Inlet.

Fan Size	P	R	S	T	W	V	AB	AC	AD	AE	KEYWAY Wdth.	KEYWAY Dpth.	Shaft Diam.	Anchor Bolts
1½	11 9/16	13¼	14⅝	20 1/16	8	4	23½	15 9/16	17⅝	13 9/16	5/16	1/8	1 3/16	5/8
1¾	13 5/16	14¾	17 1/16	23¼	10	4	27 1/16	17 5/16	20 5/16	15⅝	5/16	1/8	1 5/16	5/8
2	14⅝	16½	19½	26¼	14	5	30⅜	20¼	23	17 9/16	3/8	1/8	1 7/16	5/8
2¼	16 13/16	18¼	21 15/16	29⅝	16	5	34	22 9/16	25⅝	19½	3/8	1/8	1 11/16	5/8
2½	17 15/16	19¼	24⅜	32¾	18	5	37½	24¾	28 5/16	21 7/16	3/8	1/8	1 15/16	5/8
3	20 5/16	22	29¼	39⅛	22	6	44¼	29	33⅛	25	½	1/8	1 15/16	5/8



Type HV Fan—Sizes 1½ to 3—Arrangement A
Standard Double Width

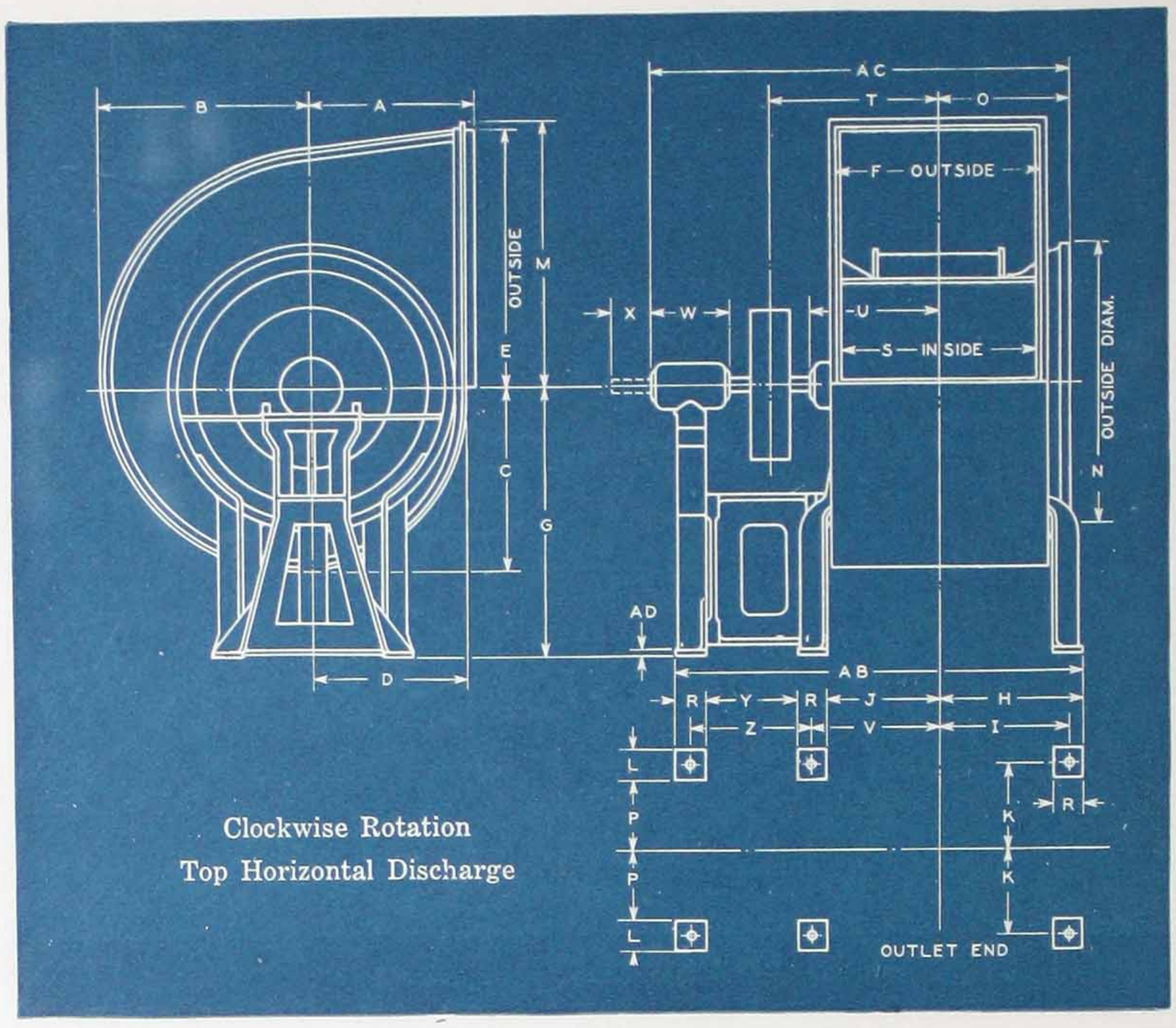
Dimension Table

Dimensions are in Inches

Fan Size	A	B	C	D	E	F	G	H	I	J	K	L	M
1½	14 1/16	16 5/8	14 9/16	12 9/16	19 1/16	29 7/16	7½	18 9/16	17 5/16	6¼	2½	2½	20½
1¾	15 7/8	19 1/16	16¾	14 3/8	22¼	34 5/16	8¾	21 3/8	19 5/16	7 5/16	2 7/8	2 7/8	23½
2	17 5/8	21½	18 13/16	16⅛	25¼	39 3/16	10	24 3/16	22 9/16	8 3/8	3¼	3¼	26¾
2¼	19 7/16	24 1/16	21	17 15/16	28 5/8	44 1/16	11¼	27	25 3/16	9 7/16	3 5/8	3 5/8	30
2½	21 3/16	26 7/16	23 1/16	19 11/16	31¾	48 15/16	12½	29 13/16	28 1/16	10½	4	4	33
3	24 7/16	31	27	22 5/16	38⅛	58 11/16	15	35 3/16	33 1/16	12¾	4½	4½	39½

Fan Size	*N	O	P	R	S	T	W	V	KEYWAY Width	KEYWAY Depth	Shaft Diam.	Anchor Bolts
1½	20¼	17¼	17¾	20¼	29¼	20 1/16	8	5	5/16	1/8	1 3/16	5/8
1¾	23¾	19 15/16	20¾	23¼	34⅛	23¼	10	5	5/16	1/8	1 5/16	5/8
2	27	22 5/16	23⅛	26	39	26¼	14	6	3/8	1/8	1 7/16	5/8
2¼	30 5/8	25 1/16	26¼	29¼	43 7/8	29 5/8	16	6	3/8	1/8	1 11/16	5/8
2½	34	28 7/16	28 3/8	32	48¾	32¾	18	7	3/8	1/8	1 11/16	5/8
3	40¾	33⅜	33¼	37¼	58½	39⅛	22	8	½	1/8	1 15/16	5/8

*Diameter of Pipe to fit over Inlet.



Clockwise Rotation
Top Horizontal Discharge

Type HV Fan—Sizes 1½ to 3—Arrangement B
Standard Single Width

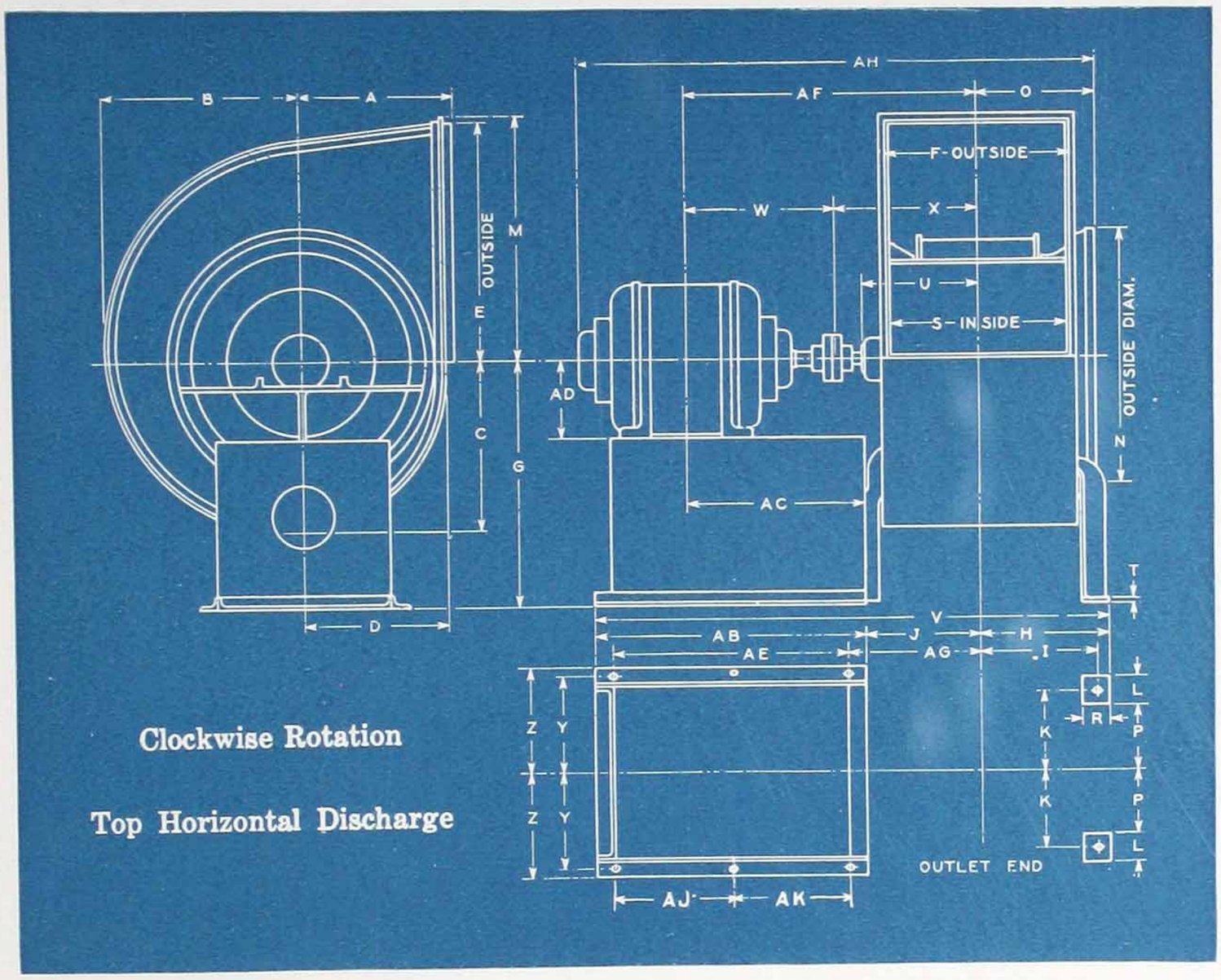
Dimension Table

Dimensions are in Inches

Fan Size	A	B	C	D	E	F	G	H	I	J	K	L	M	*N	O	P	R	S	T
1½	14 1/16	16 5/8	14 9/16	12 9/16	19 1/16	14 13/16	20 1/2	11 1/4	10	8 3/4	6 1/4	2 1/2	20 1/16	20 1/4	9 15/16	5	2 1/2	14 5/8	14
1¾	15 7/8	19 1/16	16 3/4	14 3/8	22 1/4	17 1/4	23 1/2	12 13/16	11 3/8	9 5/16	7 5/16	2 7/8	23 1/4	23 3/4	11 3/8	5 7/8	2 7/8	17 1/16	16 1/4
2	17 5/8	21 1/2	18 3/16	16 1/8	25 1/4	19 11/16	26 3/4	14 7/16	12 13/16	11 3/16	8 3/8	3 1/4	26 1/4	27	12 9/16	6 3/4	3 1/4	19 1/2	17
2¼	19 7/16	24 1/16	21	17 15/16	28 5/8	22 1/8	30	16	14 3/16	12 3/8	9 7/16	3 5/8	29 5/8	30 5/8	14 1/16	7 5/8	3 5/8	21 15/16	19 3/4
2½	21 3/16	26 7/16	23 1/16	19 11/16	31 3/4	24 9/16	33	17 5/8	15 7/8	13 5/8	10 1/2	4	32 3/4	34	16 1/4	8 1/2	4	24 3/8	21
3	24 7/16	31	27	22 5/16	38 1/8	29 7/16	39 1/2	20 9/16	18 7/16	16 1/16	12 3/4	4 1/2	39 1/8	40 3/4	18 3/4	10 1/2	4 1/2	29 1/4	24 7/16

* Diameter of Pipe to fit over Inlet.

Fan Size	U	V	W	X	Y	Z	AB	AC	AD	AE	AF	AG	AH	PULLEY		KEYWAY		Shaft Diam	Anch Bolts
														Diam	Wdth	Wdth	Dpth		
1½	10 11/16	10	8	5 1/8	8 5/8	11 1/8	33 5/8	35 1/16	1/2	17 5/8	13 9/16	23 1/2	15 9/16	8	4	5/16	1/8	1 3/16	5/8
1¾	12 1/4	11 7/16	9	5 3/8	10 3/8	13 1/4	38 7/8	40 1/2	1/2	20 5/16	15 5/8	27 1/16	17 15/16	10	4	5/16	1/8	1 5/16	5/8
2	13 5/8	12 13/16	9	6 1/8	10 1/4	13 1/2	42 3/8	43 1/8	9/16	23	17 9/16	30 3/8	20 1/4	14	5	3/8	1/8	1 7/16	5/8
2¼	15 5/16	14 3/16	10½	6 1/8	11 7/8	15 1/2	47 1/2	48 11/16	9/16	25 5/8	19 1/2	34	22 9/16	16	5	3/8	1/8	1 11/16	5/8
2½	16 5/16	15 7/8	10½	6 3/8	11 5/8	15 3/8	50 7/8	52 3/8	9/16	28 3/16	21 7/16	37 1/2	24 3/4	18	5	3/8	1/8	1 11/16	5/8
3	18 5/8	18 7/16	11½	7	13 3/8	17 7/8	59	60 1/2	5/8	33 1/8	25	44 1/4	29	22	6	1/2	1/8	1 15/16	5/8



Type HV Fan—Sizes 1½ to 3—Arrangement I
Standard Single Width

Dimension Table

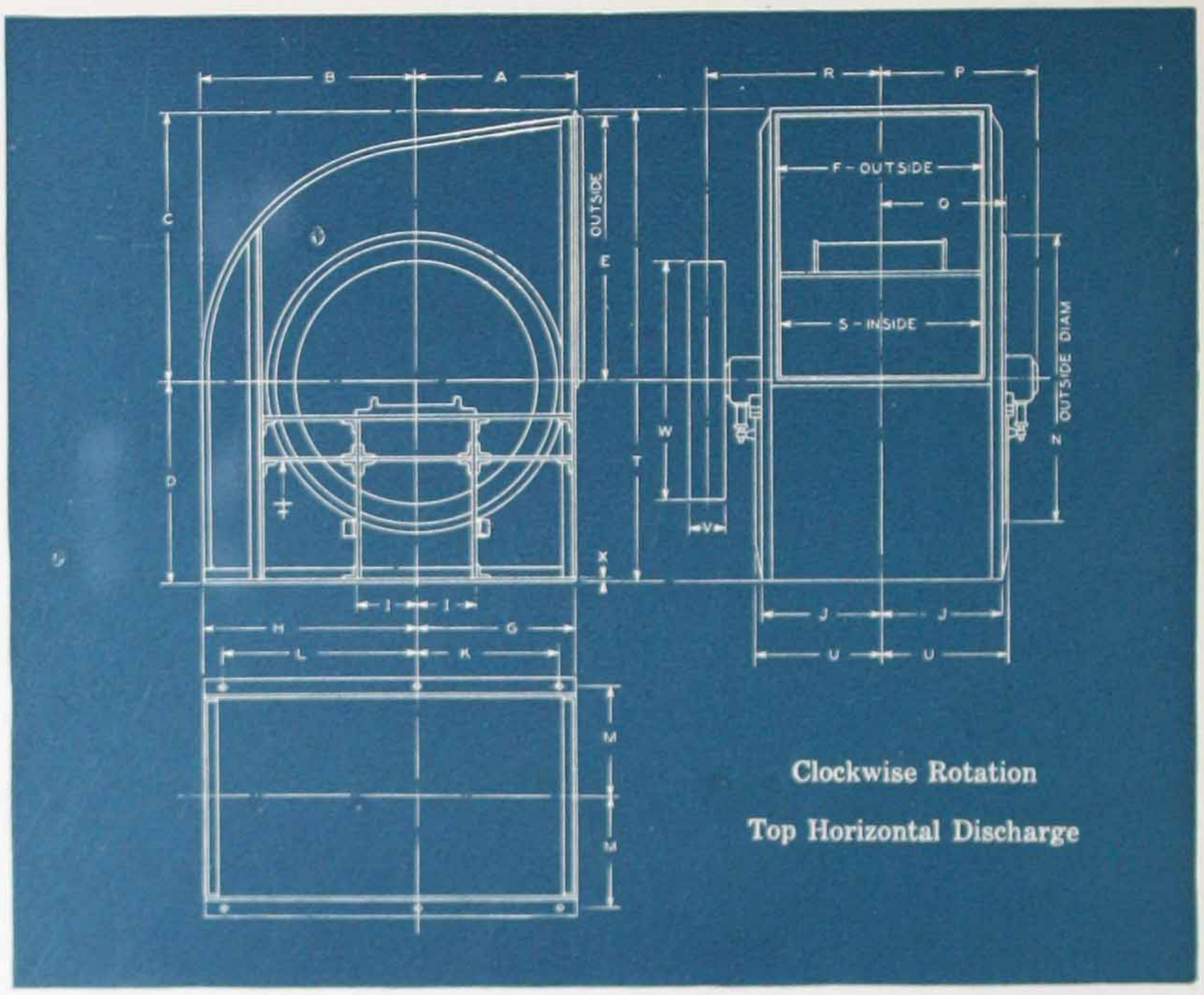
Dimensions are in Inches

Fan Size	A	B	C	D	E	F	G	H	I	J	K	L	M
1½	14 1/16	16 5/8	14 9/16	12 9/16	19 1/16	14 13/16	20 1/2	11 1/4	10	10	6 1/4	2 1/2	20 1/16
1¾	15 7/8	19 1/16	16 3/4	14 3/8	22 1/4	17 5/16	23 1/2	12 13/16	11 7/16	11 3/16	7 5/16	2 7/8	23 1/4
2	17 5/8	21 1/2	18 13/16	16 1/8	25 1/4	19 11/16	26 3/4	14 7/16	12 13/16	12 7/16	8 3/8	3 1/4	26 1/4
2¼	19 7/16	24 1/16	21	17 15/16	28 5/8	22 1/8	30	16	14 3/16	13 5/8	9 7/16	3 5/8	29 5/8
2½	21 3/16	26 7/16	23 1/16	19 11/16	31 3/4	24 9/16	33	17 5/8	15 7/8	15 3/8	10 1/2	4	32 3/4
3	24 7/16	31	27	22 15/16	38 1/8	29 7/16	39 1/2	20 9/16	18 7/16	18 3/16	12 3/4	4 1/2	39 1/8

Fan Size	*N	O	P	R	S	T	U	X	KEYWAY Width	KEYWAY Depth	Shaft Diam.	Anchor Bolts
1½	20 1/4	9 15/16	5	2 1/2	14 5/8	1/2	10 11/16	14 7/16	5/16	1/8	1 3/16	5/8
1¾	23 3/4	11 7/16	5 7/8	2 7/8	17 1/16	1/2	12 1/4	16	5/16	1/8	1 5/16	5/8
2	27	12 9/16	6 3/4	3 1/4	19 1/2	9/16	13 5/8	17 3/8	3/8	1/8	1 7/16	5/8
2¼	30 5/8	14 1/16	7 5/8	3 5/8	21 15/16	9/16	15 5/16	19 13/16	3/8	1/8	1 11/16	5/8
2½	34	16 1/4	8 1/2	4	24 3/8	9/16	16 5/16	20 13/16	3/8	1/8	1 11/16	5/8
3	40 3/4	18 3/4	10 1/2	4 1/2	29 1/4	5/8	18 5/8	23 1/8	1/2	1/8	1 15/16	5/8

*Diameter of Pipe to fit over Inlet.

Note:—Dimensions V, W, Y, Z, AB, AC, AD, AE, AF, AG, AH, AJ and AK dependent upon size and type of motor used.



Clockwise Rotation

Top Horizontal Discharge

Type HV Fan—Sizes 3½ to 9—Arrangement A Full Housed—Standard Single Width

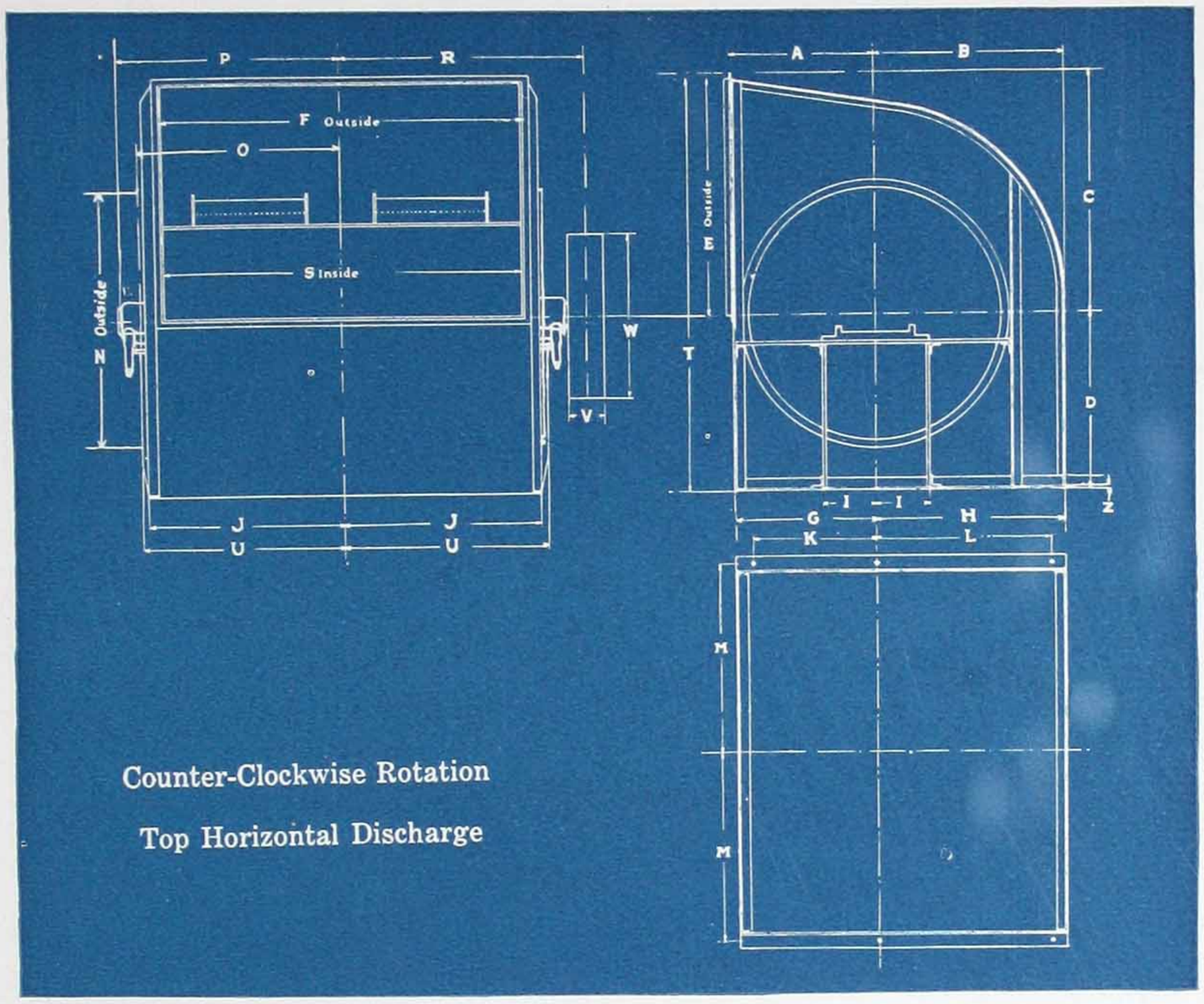
Dimension Table

Dimensions are in Inches

Fan Size	A	B	C	D	E	F	G	H	I	J	K	L	M	*N
3½	27 1/16	36 5/16	45 5/16	33 3/4	44 1/2	34 1/2	26 7/16	36 3/16	10	20 5/16	23	33	18 13/16	47 1/2
4	30 9/16	41 5/16	51 5/16	38 3/4	50 3/4	39 3/8	30 3/4	41 5/16	11	23 1/16	27	37 1/2	21 1/2	54 1/2
4½	34 5/16	46 5/16	58 7/16	43	57 1/16	44 1/4	34 7/16	46 5/16	12	25 5/16	31	43	23 5/16	61
5	38 1/2	51 5/16	64 5/16	48	63 1/2	49 1/16	38 5/16	51 5/16	12 1/2	28 1/2	34	47 3/4	26 11/16	68
5½	42 5/16	57	71 5/16	52 1/2	70	54 3/16	42 1/16	57	13 1/2	30 5/16	38	53	29 1/16	75
6	46 1/4	62 5/16	77 1/16	57	75 1/4	59	45 5/16	62 5/16	14 1/2	33 5/16	42	58	31 5/16	81 1/2
6½	50 1/16	67 5/16	85 5/16	61 1/2	82 1/2	63 7/16	49 5/16	67 5/16	15 1/2	36 5/16	44 1/2	62	34 1/2	88 1/2
7	53 5/16	72 1/2	91 5/16	66	89	68 3/4	53 5/16	72 1/2	15 1/2	39 1/4	48 1/2	67 1/2	36 5/16	95
7½	57 3/4	77 1/2	98 5/16	70 1/2	95 1/2	73 5/16	57 1/2	77 1/2	16 5/8	41 5/16	52 1/2	72 1/2	39 5/16	102
8	61 5/16	82 7/16	104 5/16	75	101 1/2	78 1/2	61 5/16	82 7/16	16 5/8	44 1/16	55	77 1/2	41 5/16	109
8½	65 7/16	88	111 5/16	80 1/2	108	83 1/2	65 5/16	88	17 5/8	47 5/16	59	82	44 3/4	116
9	69 1/8	93	118 5/16	85	114 1/2	88 5/8	68 3/4	93	17 5/8	50	62 1/2	87	47 5/16	122

* Diameter of Pipe to fit over Inlet.

Fan Size	O	P	R	S	T	U	W	V	X	KEYWAY Width	KEYWAY Depth	Shaft Diam.	Anchor Bolts
3½	20 5/16	26 1/2	29 1/4	34 1/16	79 5/16	21 5/16	28	6	1/4	1/2	3/16	2 5/16	5/8
4	23 1/16	28 7/8	32 3/4	39	90 5/16	23 7/8	36	7	1/4	5/8	3/16	2 7/16	5/8
4½	24 5/16	31 5/16	35 1/2	43 7/16	101 5/16	26 5/16	42	7	1/4	5/8	3/16	2 11/16	5/8
5	29 5/16	34 5/16	39 1/4	48 3/4	112 5/16	29 5/16	48	8	5/16	3/4	1/4	2 15/16	5/8
5½	30 3/4	37 5/16	42	53 1/16	124 5/16	32 1/4	54	8	5/16	3/4	1/4	3 7/16	5/8
6	33 1/16	41 1/16	46 1/2	58 1/2	134 5/16	35 5/16	62	10	5/16	3/4	1/4	3 15/16	5/8
6½	36 1/16	43 5/16	49 1/4	63 1/16	146 5/16	38 5/16	68	10	5/16	1	5/16	3 15/16	5/8
7	38 1/16	46 1/16	52 1/4	68 1/16	157 5/16	40 1/16	74	12	5/16	1	5/16	3 15/16	5/8
7½	40 5/16	49 5/16	56	73 1/16	168 5/16	44 1/16	80	12	5/16	1	5/16	4 7/16	5/8
8	44 1/16	52	59 1/4	78	179 5/16	46 1/2	86	14	5/16	1	5/16	4 7/16	5/8
8½	46 1/16	55 5/16	63 3/4	82 7/16	192 5/16	48 5/16	92	16	5/16	1	5/16	4 15/16	5/8
9	48 5/16	57 1/16	67 1/4	87 5/16	203 1/16	51 5/16	98	18	5/16	1	5/16	4 15/16	5/8



Type HV Fan—Sizes 3½ to 9—Arrangement A Full Housed—Standard Double Width

Dimension Table

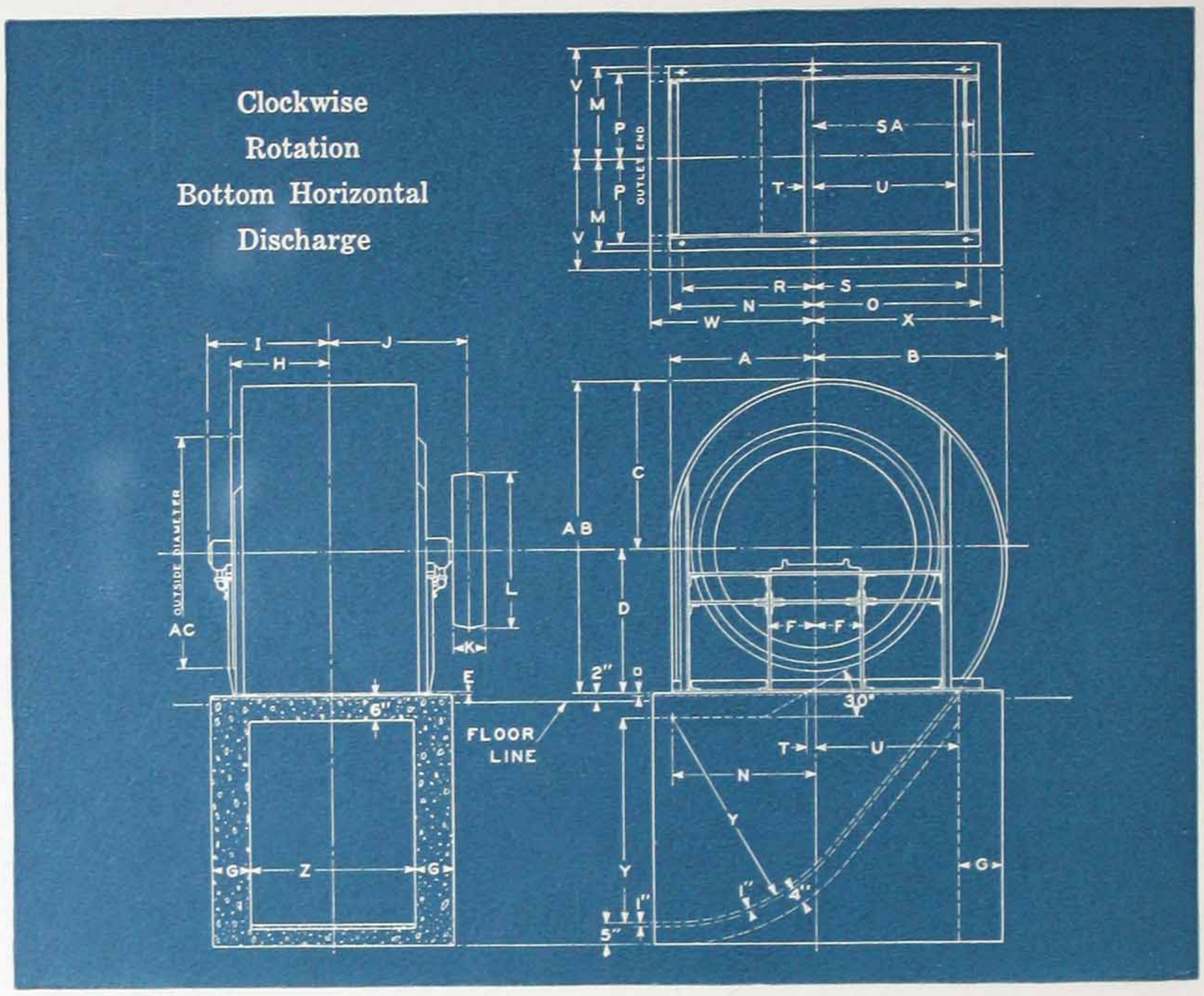
Dimensions are in Inches

Fan Size	A	B	C	D	E	F	G	H	I	J	K	L	M	*N
3½	27 1/8	36 3/8	45 9/16	33 3/4	44 1/2	68 5/8	26 7/8	36 3/8	10 1/2	37 5/16	23	33	35 15/16	47 1/2
4	30 15/16	41 9/16	51 13/16	38 3/4	50 3/4	78 3/8	30 3/4	41 9/16	11 1/2	42 11/16	27	37 1/2	41 1/16	54 1/2
4½	34 5/8	46 9/16	58 7/16	43	57 1/8	88 1/8	34 7/16	46 9/16	12	47 9/16	31	43	45 15/16	61
5	38 1/2	51 13/16	64 13/16	48	63 1/2	97 7/8	38 5/16	51 13/16	13	52 15/16	34	47 3/4	51 1/8	68
5½	42 3/8	57	71 13/16	52 1/2	70	107 3/4	42 1/8	57	13 1/2	57 7/8	38	53	56 1/16	75
6	46 1/4	62 3/16	77 1/16	57	75 1/4	117 1/2	45 15/16	62 3/16	15	62 3/4	42	58	60 15/16	81 1/2
6½	50 1/8	67 5/16	85 5/16	61 1/2	82 1/2	127 1/4	49 13/16	67 5/16	16	68 5/8	44 1/2	62	66 5/16	88 1/2
7	53 15/16	72 1/2	91 13/16	66	89	137	53 5/8	72 1/2	16	73 1/2	48 1/2	67 1/2	71 3/16	95
7½	57 3/4	77 1/2	98 5/16	70 1/2	95 1/2	146 3/4	57 1/2	77 1/2	17	78 3/8	52 1/2	72 1/2	76 1/16	102
8	61 9/16	82 7/8	104 5/16	75	101 1/2	156 1/2	61 3/8	82 7/8	19 1/2	83 1/4	55	77 1/2	80 15/16	109
8½	65 7/16	88	111 11/16	80 1/2	108	166 3/8	65 3/16	88	19 1/2	89 3/16	59	82	86 3/8	116
9	69 1/8	93	118 1/16	85	114 1/2	176 1/8	68 3/4	93	22 1/2	94 1/16	62 1/2	87	91 1/4	122

* Diameter of Pipe to fit over Inlet.

Fan Size	O	P	R	S	T	U	W	V	Z	KEYWAY Width	KEYWAY Depth	Shaft Diam.	Anchor Bolts
3½	37 7/8	43 1/4	47 1/4	68 1/4	79 5/16	38 5/16	28	8	1/4	1/2	1/8	2 3/16	3/4
4	42 11/16	48 1/8	53	78	90 9/16	43 3/16	36	10	1/4	5/8	3/16	2 7/16	3/4
4½	46 3/4	54	59	87 3/4	101 7/16	48 1/16	42	10	1/4	3/4	1/4	2 15/16	3/4
5	54	59 1/4	65 1/4	97 1/2	112 13/16	52 15/16	48	12	5/16	3/4	1/4	3 3/16	3/4
5½	57 9/16	65	71	107 1/4	124 5/16	58 7/8	54	12	5/16	3/4	1/4	3 7/16	3/4
6	62 5/16	70 1/2	77 1/2	117	134 1/16	63 3/4	62	14	5/16	1	3/8	3 15/16	3/4
6½	68 5/16	76 1/8	84	126 3/4	146 13/16	69 5/8	68	16	3/8	1	3/8	4 7/16	3/4
7	72 3/4	81	90	136 1/2	157 13/16	74 1/2	74	18	3/8	1	3/8	4 7/16	3/4
7½	77 1/2	86 7/8	96 3/4	146 1/4	168 13/16	79 3/8	80	20	3/8	1 1/4	1/2	4 15/16	3/4
8	83 1/16	95 3/4	106 3/4	156	179 5/16	85 1/4	86	22	3/8	1 1/4	1/2	5 7/16	3/4
8½	88 1/4	100 3/4	112 3/4	165 3/4	192 3/16	90 3/16	92	24	3/8	1 1/4	1/2	5 7/16	3/4
9	92 9/16	106	119	175 1/2	203 1/16	95 1/16	98	26	3/8	1 1/4	1/2	6 7/16	3/4

Clockwise
Rotation
Bottom Horizontal
Discharge



Type HV Fan—Sizes 3½ to 9—Arrangement A
7/8 Housed—Standard Single Width

Dimension Table

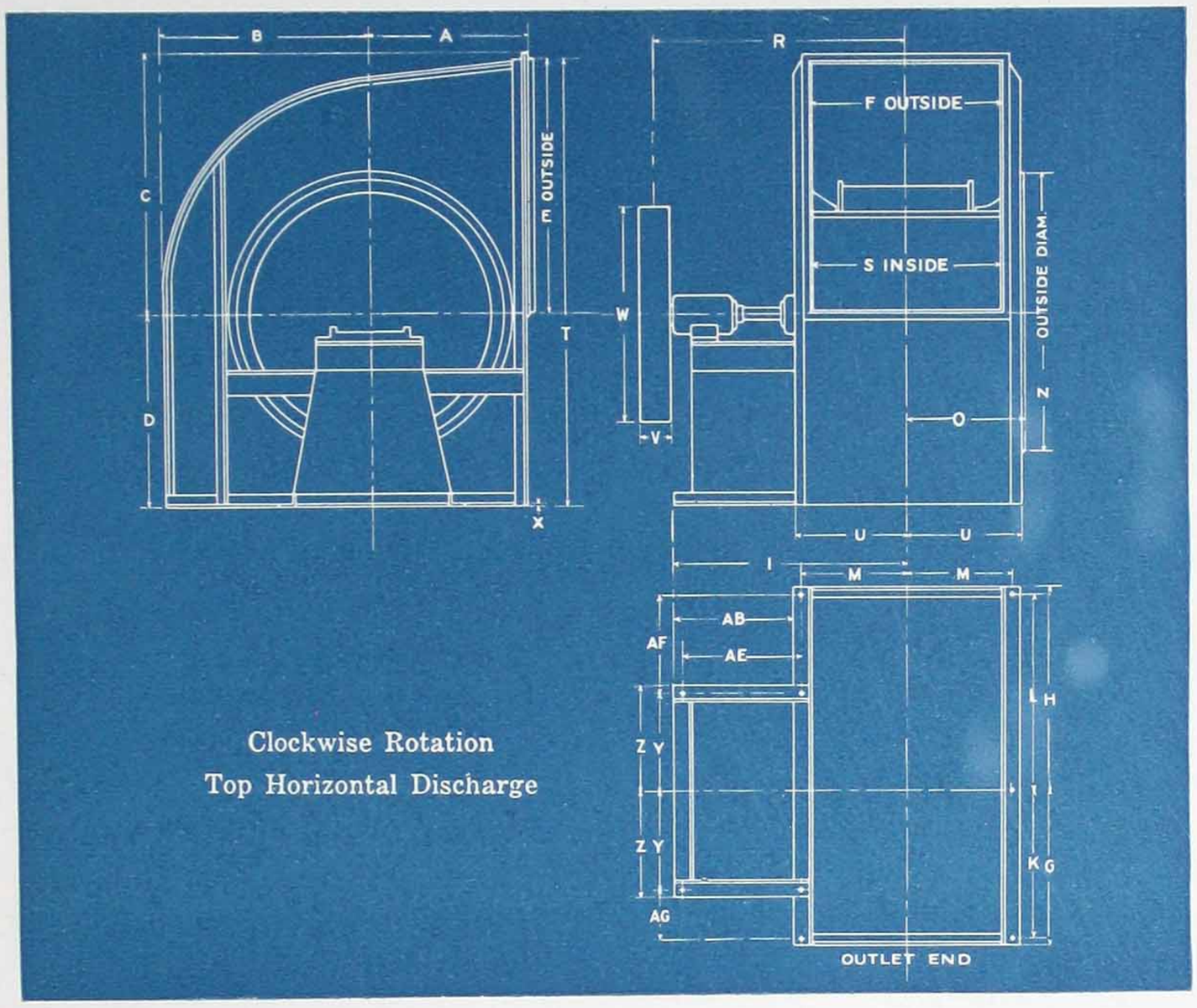
Dimensions are in Inches

Size Fan	A	B	C	D	E	F	G	H	I	J	L	K	M	N
3½	29 5/16	38 13/16	34	29	1/4	10	9	20 13/16	26 1/2	29 3/4	28	6	20 3/16	29 5/16
4	33 1/2	44 1/4	38 13/16	33 1/2	1/4	11	9	23 3/16	28 7/8	32 3/4	36	7	23 1/8	33 1/2
4½	37 1/2	49 5/8	43 1/2	37	1/4	12	9	24 13/16	31 9/16	35 1/2	42	7	25 9/16	37 1/2
5	41 3/4	55 1/4	48 3/8	41 1/2	5/16	12 1/2	10	29 9/16	34 13/16	39 1/4	48	8	28 1/2	41 3/4
5½	45 7/8	60 11/16	53 1/4	45 1/2	5/16	13 1/2	10	30 3/4	37 9/16	42	54	8	30 15/16	45 7/8
6	50 1/16	66 5/16	58 1/8	49	5/16	14 1/2	10	33 1/16	41 1/8	46 1/2	62	10	33 3/8	50 1/16
6½	54 1/4	71 11/16	62 7/8	53	3/8	15 1/2	11	36 5/8	43 15/16	49 1/4	68	10	36 13/16	54 1/4
7	58 7/16	77 5/16	67 3/4	57	3/8	15 1/2	11	38 5/8	46 3/8	52 3/4	74	12	39 1/4	58 7/16
7½	62 5/8	82 5/8	72 3/8	60 1/2	3/8	16 5/8	11	40 15/16	49 9/16	56	80	12	41 11/16	62 3/8
8	66 13/16	88 3/8	77 7/16	64 1/2	3/8	16 5/8	11	44 1/16	52	59 1/4	86	14	44 1/8	66 13/16
8½	70 15/16	93 13/16	82 1/4	69	3/8	17 5/8	11	46 3/8	55 7/16	63 3/4	92	16	47 9/16	70 15/16
9	74 7/8	99 1/16	86 7/8	73	3/8	17 5/8	11	48 11/16	57 7/8	67 1/4	98	18	50	74 7/8

Size Fan	O	P	R	S	T	U	V	W	X	Y	Z	AB	*AC	SA
3½	33 5/8	18 13/16	27 1/4	30 5/8	13/16	28 7/8	26 1/16	33 9/16	37 7/8	44	34 1/8	63	47 1/2	32 1/4
4	38 1/4	21 1/2	31 1/2	34 15/16	15/16	32 5/8	28 1/2	36 7/8	41 5/8	50	39	72 5/16	54 1/2	36 5/8
4½	42 5/8	23 15/16	35 1/2	39 1/8	1 1/16	37 1/8	30 15/16	41	46 1/8	56 1/2	43 7/8	80 1/2	61	41
5	47 1/2	26 11/16	39 1/2	43 1/2	1 3/16	41 1/8	34 5/8	45 3/8	51 1/8	63	48 3/4	89 7/8	68	45 11/16
5½	51 3/4	29 1/8	43	47 3/4	1 1/4	45 5/16	36 15/16	49 7/16	55 5/16	69 1/8	53 5/8	98 3/4	75	49 15/16
6	56 7/16	31 9/16	46 1/2	52 3/8	1 3/8	49 15/16	39 1/4	53 9/16	59 15/16	74 3/4	58 1/2	107 1/8	81 1/2	54 5/8
6½	61 1/2	34 1/2	51	56 1/2	1 1/2	54	42 11/16	57 3/4	65	82	63 3/8	115 7/8	88 1/2	59 3/16
7	65 15/16	36 15/16	54 1/2	60 15/16	1 5/8	58 3/8	45 1/8	62	69 3/8	88 1/2	68 1/4	124 3/4	95	63 1/2
7½	70 1/4	39 3/8	58 1/2	65 1/4	1 3/4	62 7/8	47 9/16	66	73 7/8	93	73 1/8	132 7/8	102	67 15/16
8	74 11/16	41 13/16	63	69 11/16	1 7/8	67 1/4	50	70 3/8	78 1/4	101	78	141 15/16	109	72 3/8
8½	80 5/16	44 3/4	66	74 1/4	2	71	52 7/16	72 5/8	82	107 1/2	82 7/8	151 1/4	116	77 1/2
9	84 1/8	47 5/16	70	78 1/8	2 1/16	75	54 7/8	76 3/4	86	114	87 3/4	159 7/8	122	81 5/16

* Diameter of Pipe to fit over Inlet.

Note:—7/8 Housed Fan not furnished smaller than size 3½.



Type HV Fan—Sizes 3½ to 9—Arrangement F
Full Housed—Standard Single Width

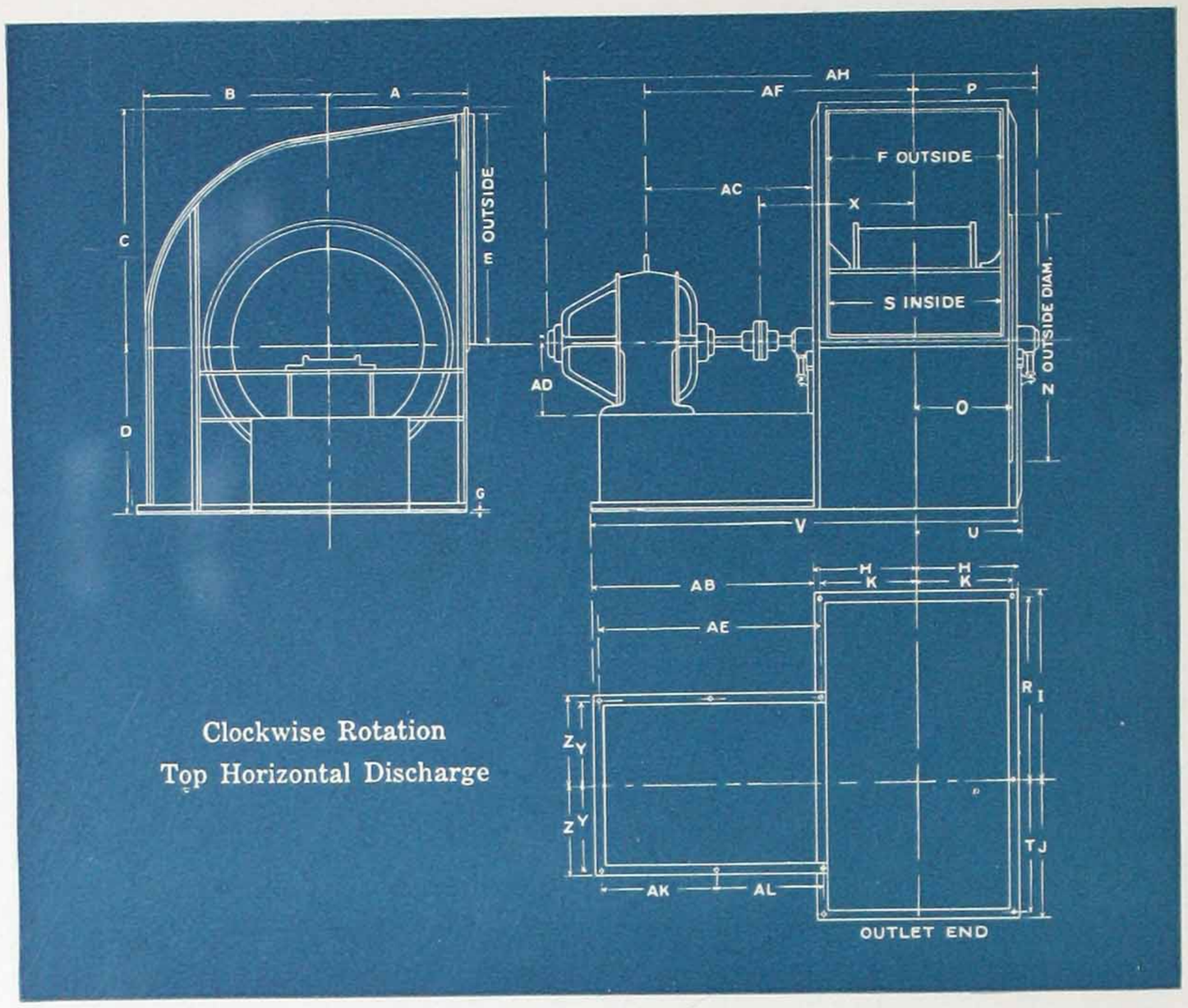
Dimension Table

Dimensions are in Inches

Fan Size	A	B	C	D	E	F	G	H	I	K	L	M	*N	O	R
3½	27 1/8	36 3/8	45 9/16	33 3/4	44 1/2	34 1/2	26 7/8	36 3/8	44 3/8	23	33	18 13/16	47 1/2	20 13/16	48 1/4
4	30 15/16	41 9/16	51 13/16	38 3/4	50 3/4	39 3/8	30 3/4	41 9/16	47 3/8	27	37 1/2	21 1/2	54 1/2	23 3/16	51
4½	34 5/8	46 9/16	58 7/16	43	57 1/8	44 1/4	34 7/16	46 9/16	49 3/4	31	43	23 15/16	61	24 13/16	53 3/4
5	38 1/2	51 13/16	64 13/16	48	63 1/2	49 1/8	38 5/16	51 13/16	58 3/4	34	47 3/4	26 11/16	68	29 9/16	62 3/4
5½	42 3/8	57	71 13/16	52 1/2	70	54 1/8	42 1/8	57	61 1/8	38	53	29 1/8	75	30 3/4	65 1/4
6	46 1/4	62 3/16	77 1/16	57	75 1/4	59	45 15/16	62 3/16	69 3/4	42	58	31 9/16	81 1/2	33 1/16	75 1/4
6½	50 1/8	67 5/16	85 5/16	61 1/2	82 1/2	63 7/8	49 13/16	67 5/16	73 1/4	44 1/2	62	34 1/2	88 1/2	36 5/8	77 1/2
7	53 15/16	72 1/2	91 13/16	66	89	68 3/4	53 5/8	72 1/2	81 5/8	48 1/2	67 1/2	36 15/16	95	38 5/8	86 3/4
7½	57 3/4	77 1/2	98 5/16	70 1/2	95 1/2	73 5/8	57 1/2	77 1/2	84 1/4	52 1/2	72 1/2	39 3/8	102	40 15/16	89 1/2
8	61 9/16	82 7/8	104 5/16	75	101 1/2	78 1/2	61 3/8	82 7/8	92 5/8	55	77 1/2	41 13/16	109	44 1/16	99
8½	65 7/16	88	111 11/16	80 1/2	108	83 1/2	65 3/16	88	102	59	82	44 3/4	116	46 3/8	111 1/2
9	69 1/8	93	118 1/16	85	114 1/2	88 3/8	68 3/4	93	104 1/2	62 1/2	87	47 3/16	122	48 11/16	117 1/2

*Diameter of Pipe to fit over Inlet.

Fan Size	S	T	U	V	W	X	Y	Z	AB	AE	AF	AG	KEYWAY Width	KEYWAY Depth	Shaft Diam.	Anchor Bolts
3½	34 1/8	79 5/16	20 3/16	6	28	1/4	15 5/8	17	24 3/16	22 9/16	17 3/8	7 3/8	1/2	1/8	2 3/16	3/4
4	39	90 9/16	23 1/8	7	36	1/4	16 7/8	18 1/2	24 1/4	22 3/8	20 5/8	10 1/8	5/8	3/16	2 7/16	3/4
4½	43 7/8	101 7/16	25 9/16	7	42	1/4	18 3/8	20	24 3/16	22 5/16	24 5/8	12 5/8	5/8	3/16	2 11/16	3/4
5	48 3/4	112 3/16	28 1/2	8	48	5/16	20 7/16	22 1/4	30 1/4	28 1/16	27 5/16	13 9/16	3/4	1/4	2 15/16	3/4
5½	53 5/8	124 5/16	30 15/16	8	54	5/16	21 11/16	23 1/2	30 3/16	28	31 5/16	16 5/16	3/4	1/4	3 3/16	3/4
6	58 1/2	134 1/16	33 3/8	10	62	5/16	24 3/16	26	36 3/8	34 3/16	33 13/16	17 13/16	3/4	1/4	3 11/16	3/4
6½	63 3/8	146 13/16	36 13/16	10	68	3/8	25 11/16	28	36 7/16	33 3/4	36 5/16	18 13/16	1	3/8	3 15/16	3/4
7	68 1/4	157 13/16	39 1/4	12	74	3/8	27 3/16	29 1/2	42 3/8	39 11/16	40 5/16	21 5/16	1	3/8	4 7/16	3/4
7½	73 1/8	168 13/16	41 11/16	12	80	3/8	29 3/16	31 1/2	42 9/16	39 7/8	43 5/16	23 5/16	1 1/4	1/2	4 15/16	3/4
8	78	179 5/16	44 1/8	14	86	3/8	29 11/16	32	48 1/2	46 13/16	47 13/16	25 5/16	1 1/4	1/2	4 15/16	3/4
8½	82 7/8	192 3/16	47 9/16	16	92	3/8	32 11/16	35 1/2	54 7/16	51 1/4	49 5/16	26 5/16	1 1/4	1/2	5 7/16	3/4
9	87 3/4	203 1/16	50	18	98	3/8	33 11/16	36 1/2	54 1/2	51 5/16	53 5/16	28 13/16	1 1/4	1/2	5 7/16	3/4



Clockwise Rotation
Top Horizontal Discharge

Type HV Fan—Sizes 3½ to 9—Arrangement G
Full Housed—Standard Single Width

Dimension Table

Dimensions are in Inches

Fan Size	A	B	C	D	E	F	G	H	I	J	K	*N
3½	27 1/8	36 3/8	45 9/16	33 3/4	44 1/2	34 1/2	1/4	20 3/16	36 3/8	26 7/8	18 13/16	47 1/2
4	30 15/16	41 9/16	51 13/16	38 3/4	50 3/4	39 3/8	1/4	23 1/8	41 9/16	30 3/4	21 1/2	54 1/2
4½	34 5/8	46 9/16	58 7/16	43	57 1/8	44 1/4	1/4	25 9/16	46 9/16	34 7/16	23 15/16	61
5	38 1/2	51 13/16	64 13/16	48	63 1/2	49 1/8	5/16	28 1/2	51 13/16	38 5/16	26 11/16	68
5½	42 3/8	57	71 13/16	52 1/2	70	54 1/8	5/16	30 15/16	57	42 1/8	29 1/8	75
6	46 1/4	62 3/16	77 1/16	57	75 1/4	59	5/16	33 3/8	62 3/16	45 15/16	31 9/16	81 1/2
6½	50 1/8	67 5/16	85 5/16	61 1/2	82 1/2	63 7/8	3/8	36 13/16	67 5/16	49 13/16	34 1/2	88 1/2
7	53 15/16	72 1/2	91 13/16	66	89	68 3/4	3/8	39 1/4	72 1/2	53 5/8	36 15/16	95
7½	57 3/4	77 1/2	98 5/16	70 1/2	95 1/2	73 5/8	3/8	41 11/16	77 1/2	57 1/2	39 3/8	102
8	61 9/16	82 7/8	104 5/16	75	101 1/2	78 1/2	3/8	44 1/8	82 7/8	61 3/8	41 13/16	109
8½	65 7/16	88	111 11/16	80 1/2	108	83 1/2	3/8	47 9/16	88	65 3/16	44 3/4	116
9	69 1/8	93	118 1/16	85	114 1/2	88 3/8	3/8	50	93	68 3/4	47 3/16	122

*Diameter of Pipe to fit over Inlet.

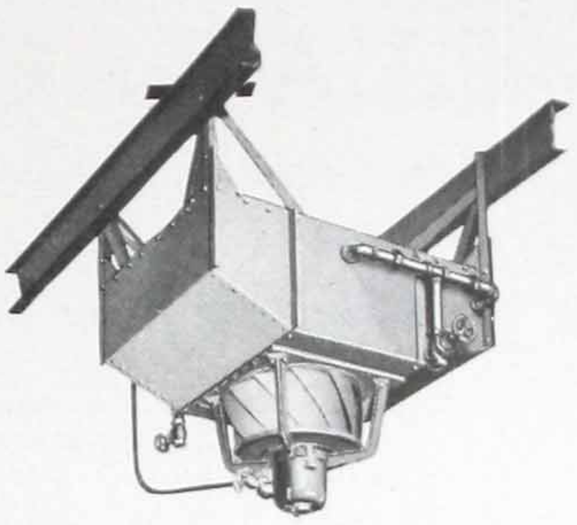
Fan Size	O	P	R	S	T	U	X	KEYWAY Width	KEYWAY Depth	Shaft Diam.	Anchor Bolts
3½	20 13/16	26 1/2	33	34 1/8	23	21 7/16	32 3/4	1/2	1/8	2 3/16	3/4
4	23 3/16	28 7/8	37 1/2	39	27	23 7/8	35 7/8	5/8	3/16	2 7/16	3/4
4½	24 15/16	31 9/16	43	43 7/8	31	26 5/16	39 1/4	5/8	3/16	2 11/16	3/4
5	29 9/16	34 13/16	47 3/4	48 3/4	34	29 13/16	43	3/4	1/4	2 15/16	3/4
5½	30 3/4	37 9/16	53	53 5/8	38	32 1/4	46 1/4	3/4	1/4	3 3/16	3/4
6	33 1/16	41 1/8	58	58 1/2	42	35 11/16	50 5/8	3/4	1/4	3 11/16	3/4
6½	36 5/8	43 15/16	62	63 3/8	44 1/2	38 3/16	53 7/8	1	3/8	3 15/16	3/4
7	38 5/8	46 3/8	67 1/2	68 1/4	48 1/2	40 5/8	57 7/8	1	3/8	3 15/16	3/4
7½	40 15/16	49 9/16	72 1/2	73 1/8	52 1/2	44 1/16	61 1/4	1	3/8	4 7/16	3/4
8	44 1/16	52	77 1/2	78	55	46 1/2	64 3/4	1	3/8	4 7/16	3/4
8½	46 3/8	55 7/16	82	82 7/8	59	48 15/16	70 3/8	1	3/8	4 15/16	3/4
9	48 11/16	57 7/8	87	87 3/4	62 1/2	51 3/8	74 7/8	1	3/8	4 15/16	3/4

Note:—Dimensions Y, Z, AB, AC, AD, AE, AF, AH, AK and AL dependent upon size and type of motor used.

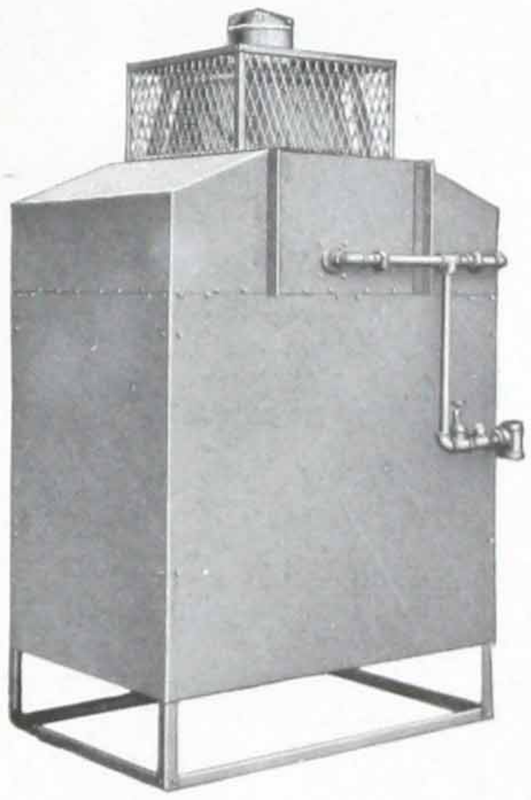
Clarage Unit Heater

FURNISHED with a positive, centrifugal fan, mounted as shown, the Clarage Unit Heater is the only equipment of its kind delivering heat direct from the fan radially in all directions. This advantage is of first importance. It means no overheating of one part to properly warm the rest of the building. It means a uniform, agreeable temperature everywhere with practically no heat loss—unusually high heating efficiency. Likewise, since the fan is of the modern backward curve blade type, it cannot overload the motor under any operating conditions. The motor furnished will handle the fan at free air delivery, or with elaborate fresh air intakes, dampers, etc.

Clarage Unit Heaters are built in three standard sizes, either floor or ceiling type, to meet all industrial heating requirements with maximum economy. They have over five times the capacity of an equal amount of direct radiation and include many refinements not found elsewhere. Catalog 42 gives complete information and specifications.



CEILING TYPE HEATER



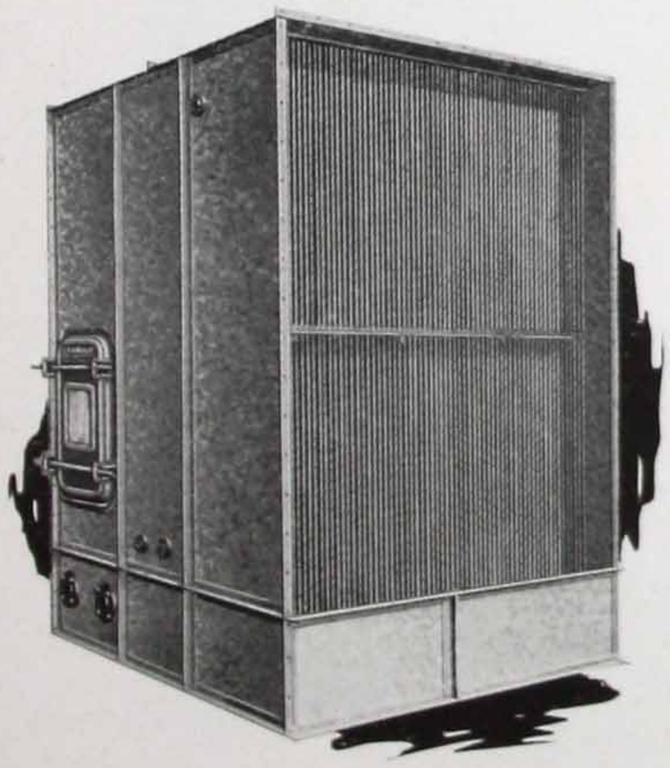
FLOOR TYPE HEATER

Type V Air Washer

THE Type V Washer embodies a number of outstanding advantages. For one thing, the nozzles provided are designed to produce an unbroken mist screen at considerably lower pump pressures, saving as high as 25% in power cost for operating the re-circulating pump; nor can the nozzles clog, since their design is simple and all openings are of ample size. All spray piping is self-supporting and is *not* carried as a dead weight on the washer casing. A water-tight inspection door is furnished as regular equipment. The Clarage Guarantee placed on this washer includes both performance and construction.

The standard Type V Washer, in the large range of sizes available, meets practically all washed air ventilating and air conditioning requirements. Most of the larger Type HV Fan installations cited on pages 5 and 6 in this Catalog also include Clarage Air Washers. Write for Catalog 72 illustrating and fully describing this high grade equipment.

For unusual humidifying and de-humidifying applications special Clarage Air Washing Equipment is designed and built. Consult with Clarage engineers on any problem of this type.



TYPE V AIR WASHER

New High Speed Ventilating Fan

THIS is a recent Clarage development designed in accordance with the best in modern fan engineering practice, and embodying a scientifically proportioned backward curve blade type wheel which gives the unit a self-limiting horsepower characteristic. It is impossible to overload the motor used for driving the fan, even though all static resistance is eliminated and the fan operates at maximum capacity with free air delivery. As a result, it is not necessary to figure a large safety allowance in the motor because of the ample safety factor incorporated into the fan design. The high operating speeds also promote economy since they permit direct drive from standard speed motors. Write for complete information.

CLARAGE

Manufactures a Complete Line of Air Handling Equipment and Allied Apparatus

Acid Proof Fans
Air Conditioning System
Air Washers

Blast Grates
Blowers

Cast Iron Fans
Cooling Fans
Cotton Fans
Crown Ventilators
Cupola Blowers

Dehumidifying Systems
Drying Systems

Engines (Vertical Steam)
Exhausters

Fans
Forced Draft Blowers

Gas-Tight Fans (Exhausting and Pressure Boosting)

Heaters
Heating & Ventilating Systems
High Speed Forced Draft Blowers
Humidifying Systems

Induced Draft Fans
Inspection Doors

Mechanical Draft Equipment
Mine Fans
Multiblade Fans
Mushroom Ventilators

Planing Mill Exhausters
Powdered Coal Fans
Pressure Blowers

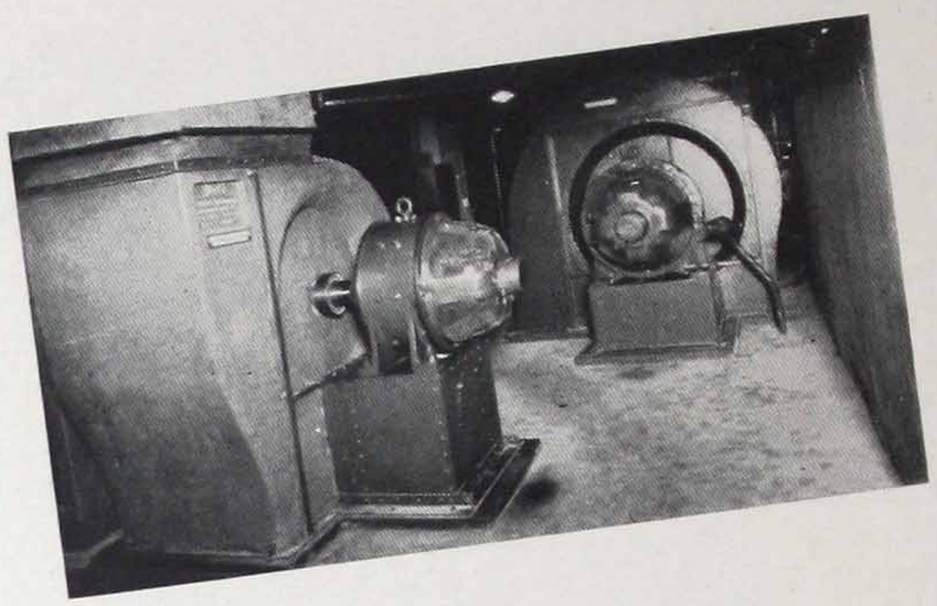
Reversible Fans and Blowers

Sheet Metal Doors
Slow Speed Planing Mill Exhausters
Steam Engines
Steel Plate Fans

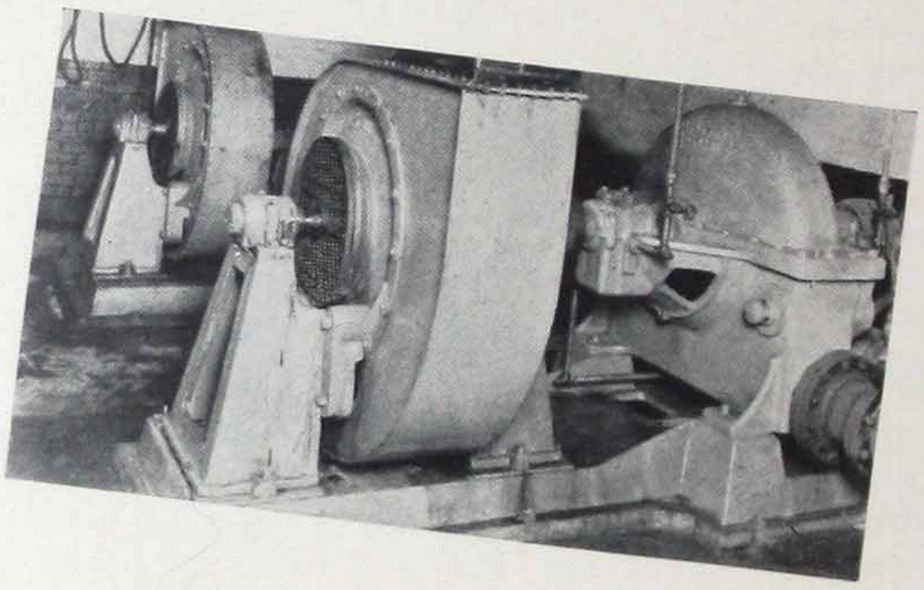
Unit Heaters

Ventilating Systems

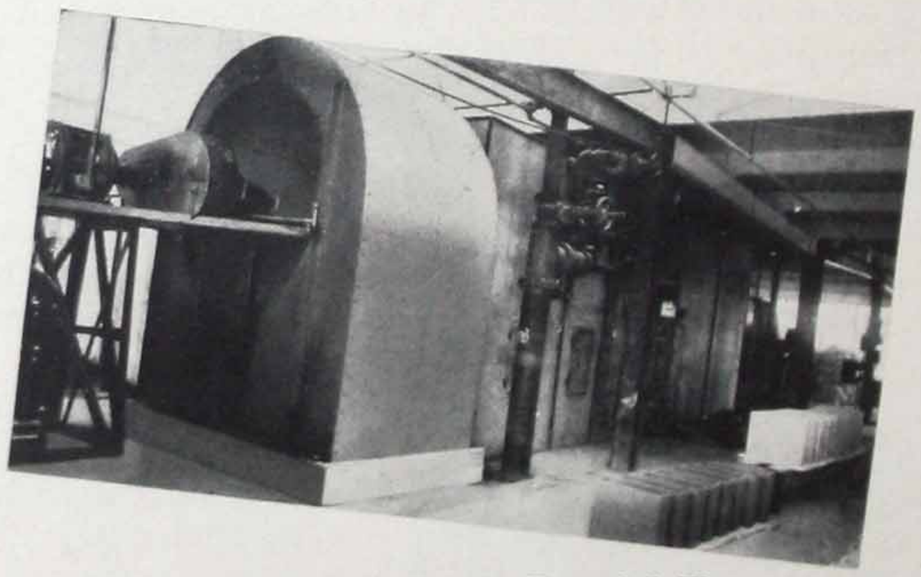
Waste Heat Fans
Water Gas Blowers



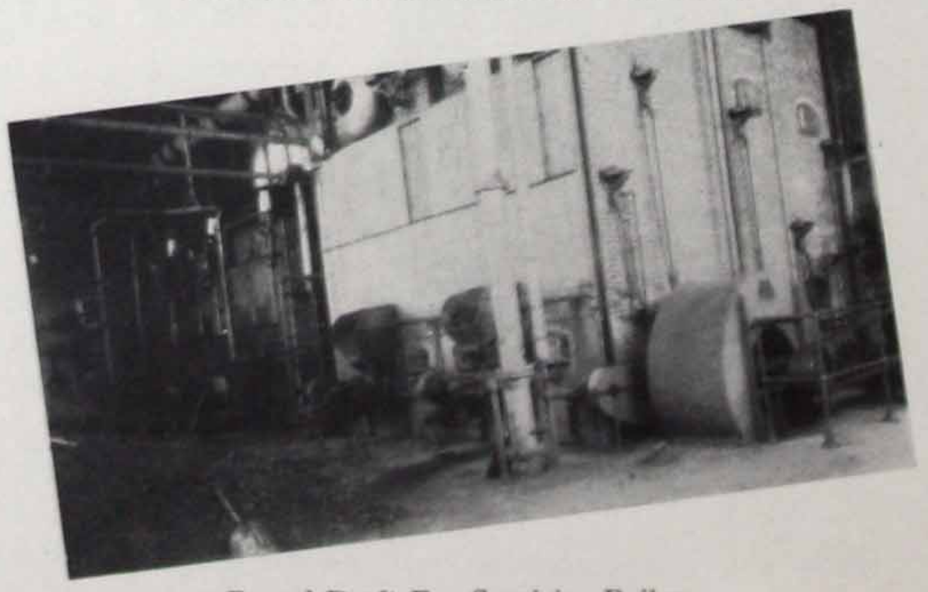
Clarage Ventilating Fans Operating in
The Palmer House, Chicago, Ill.



Type P Water Gas Blowers at Southern Indiana
Gas & Electric Co., Evansville, Ind.



Humidifying System for Enameled Ware,
Thomas Maddock's Sons' Co., Trenton, N. J.



Forced Draft Fan Servicing Boilers
Maumee Finishing Co., Toledo O

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API INTERNATIONAL

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